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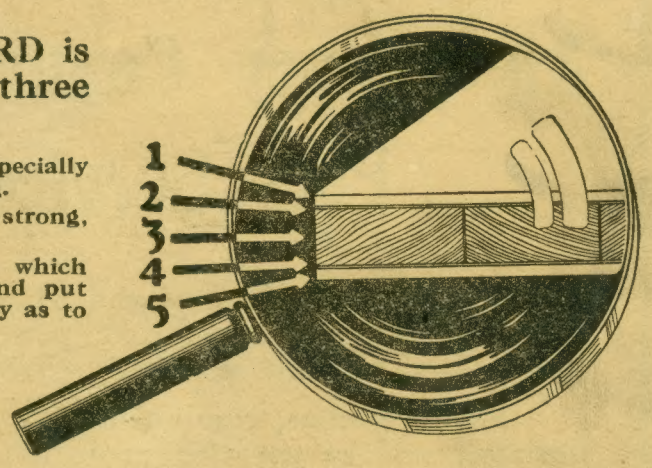
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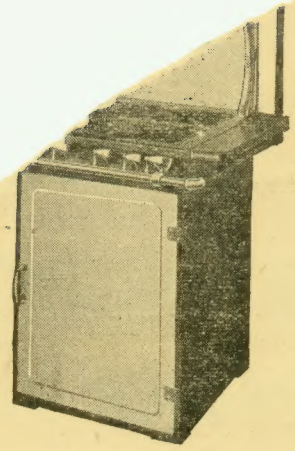
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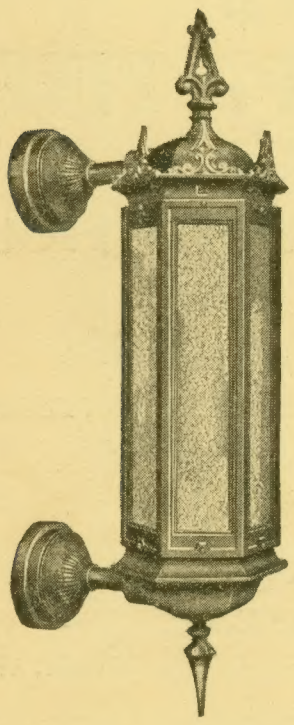
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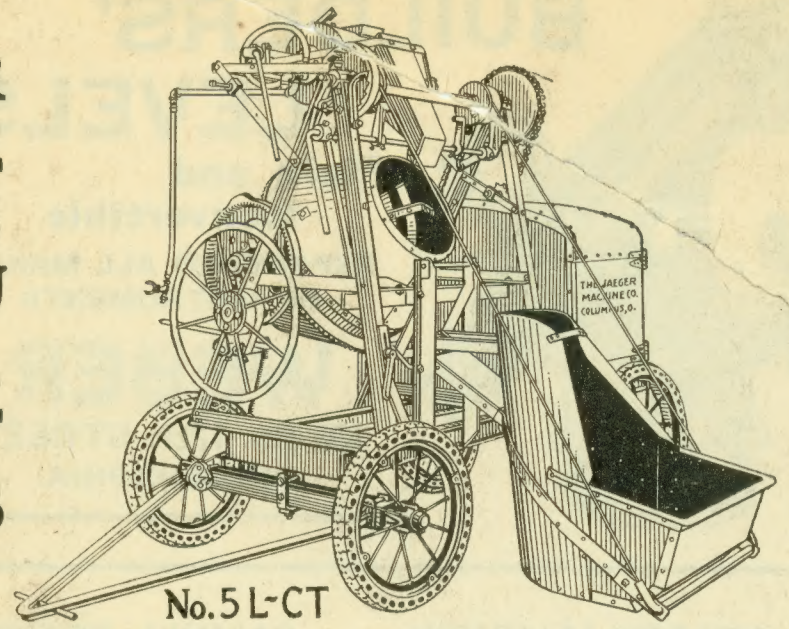
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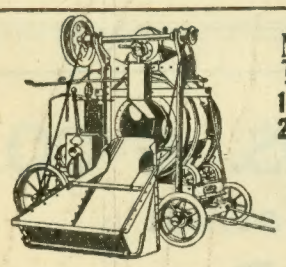
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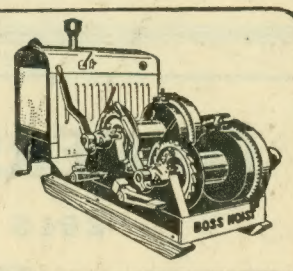
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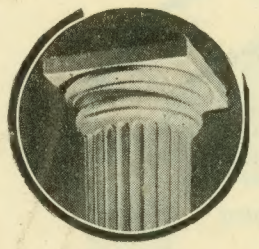
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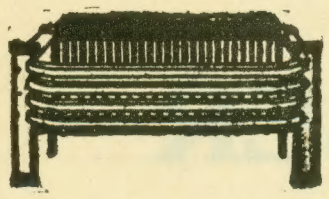
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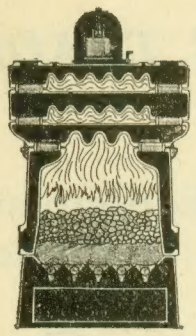
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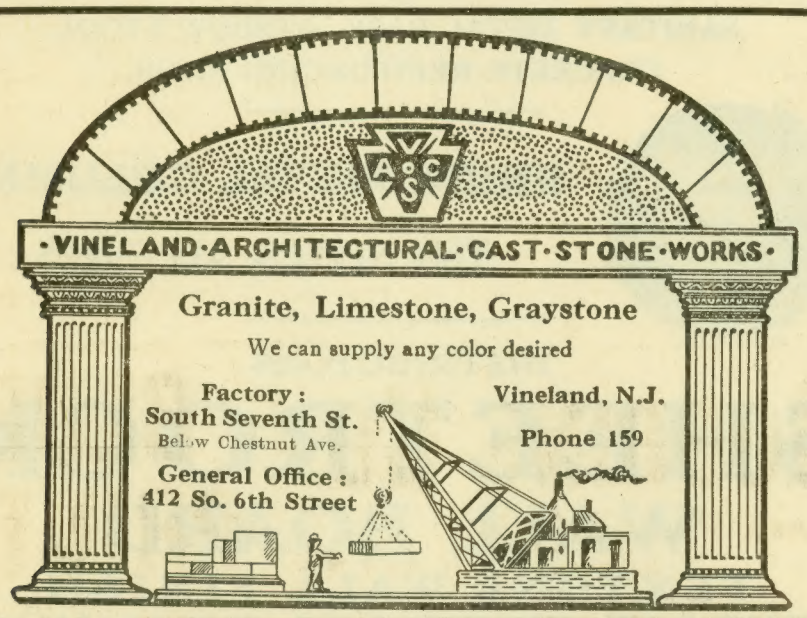
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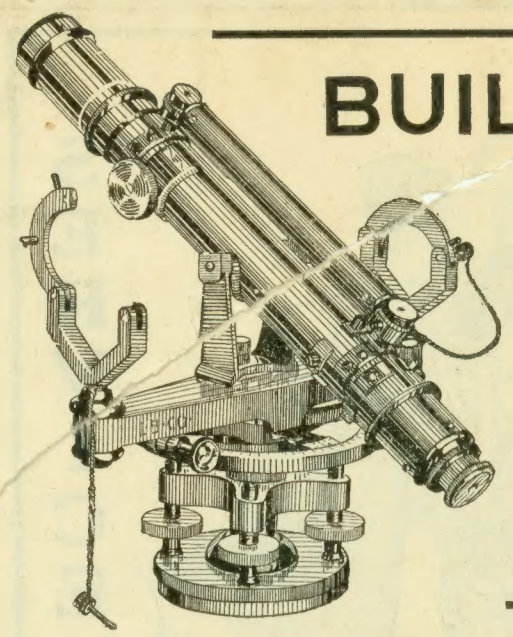
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BUILDERS' GUIDE

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VOLUME XLI
Number 1

PHILADELPHIA
January 6, 1926

BUILDERS' GUIDE

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BY

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As The Editor Sees It

REAL ESTATE AND THE CONSTRUCTION INDUSTRY

(*Address Delivered by W. C. Clark, Economist, S. W. Straus & Co., before the Seventh Annual Conference of the Harvard Committee on Economic Research, November* 13, 1925.)

The place assigned to the building industry on the program of this Seventh Annual Conference of the Harvard Committee on Economic Research is highly significant. It is much more than the normal tribute to an industry which gives employment directly to fully 5½ per cent. of those who are engaged in gainful occupations, supports, either directly or indirectly, about 10 per cent. of the nation's families, requires 250,000 freight cars for the transportation of its raw materials, and annually calls for an expenditure of about six billion dollars or approximately one-tenth of the national income, converting it into the form of durable capital. Its prominence on the program carries the implication, it seems to me, that current activity in building and real estate has at this time, an unusually vital relation to, perhaps indeed a dominating significance for the interpretation of the development of the business cycle during the next twelve months.

General Conditions Sound

To determine whether there are in the current business situation any elements which forecast an early termination to the prosperity phase of the current business cycle is, I take it, the primary purpose of this Conference. At first glance at least, such elements do not appear to be in sight. Practically all the statistical indexes point to a high degree of business prosperity at the moment. We also seem to have present practically all the conditions that should make for a continuance of this prosperity. The purchasing power of the public is enormous and well-distributed. Labor is almost fully employed at high wages. There has been a gratifying increase in the buying power of the agricultural classes not only in this country but throughout the world. The foreign demand for American goods is satisfactory. Much progress has recently been made toward the stabilization of foreign currencies (outside of France), and the outlook for permanent peace and political stability has been immensely improved by the Locarno pacts or rather by the spirit which made those international agreements possible. In the field of domestic industry, we find fewer "sore spots," fewer industries "out of luck," than for five years or more. A high rate of productive activity is being maintained on the basis of prices and costs, which are yielding a fair profit to practcally all lines of business. Neither labor nor management shows evidence of that cumulative decrease in efficiency which marks the passing of prosperity into the boom phase. Inventories, apparently, have not been accumulated in excess, in many lines. Of price inflation, there is little evidence, outside of Wall Street at least. Bank credit, in spite of the increasing drafts upon it, seems still available in ample quantity for all legitimate needs, though international gold movements and speculative credit demands will bear careful watching. Finally, our people are saving capital at an unprecedented and astounding rate.

With such a showing in the National business ledger, there is little wonder that we have been subject to the usual deluge of Gary optimism. Little wonder also, in view of our past experience with that specific, that some of our business critics should begin to throw doubts upon the situation by suggesting that the present prosperity phase of the cycle may be abruptly ended by the existence or development of that maladjustment of produc-

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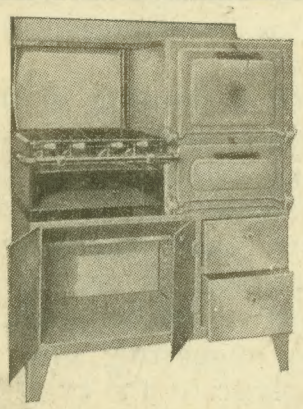
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tion which has characterized most of the major booms of the past. Small wonder also, that these critics should say that the field in which this unbalanced production will come, if it comes at all, will be building and real estate, in view of the huge and allegedly unprecedented volume of building operations in the last few years and the extent to which real estate values are being pushed by reckless speculation in Florida and certain other parts of the country. Undoubtedly, any drastic collapse in building activity and in real estate values would go far to bring to an end the prosperity phase of the current business cycle, so closely woven into the fabric of the whole industrial and commercial structure are the building industries and so obviously have they been the main support of general business in the last two or three years. Conversely the maintenance of a high degree of building activity and the moderation of real estate speculation would almost as certainly be sufficient to maintain general business prosperity throughout the coming year.

This problem of the relation of building and real estate to the current business cycle warrants, therefore, the most careful consideration. To its more general aspects my own paper will be primarily addressed while that which is to follow, will, I believe, give you a more detailed picture of fluctuations in the building industry in the recent past.

What Is Normal Volume of Building?

Our first task is to get background for our study by a search after the elusive "normal" or long-run trend of the industry. In this way we may hope to avoid the mistakes of those small-sized experts, not yet fully oriented to the postwar horizon, who in each of the last three years have predicted "sudden and dire collapse" of the "unprecedented building boom," only to find themselves humiliated by new and ever higher annual records. Our study of the building normal leads us inevitably to a consideration of the time-worn, but by no means threadbare topic of the building shortage accumulated during the war and the early postwar years. What was the magnitude of that shortage? What has been its effect upon recent building operations? To what extent has the deficit already been made up?

Let me refer very briefly to two or three of the more recent studies of this problem:

In the July number of the *Monthly Labor Review,* Mr. H. B. Byer published the results of an investigation based on building permits issued in 130 cities in the period of 1914 to 1924 and tending to show that at the end of 1924 construction had not only made up for the war shortage, but was actually about four-tenths of a year ahead of current needs. This study is subject to two criticisms: 1. Its calculations used as a basis the value of permits issued in a single and far from typical year, namely 1914. 2. The study assumed that building activity varies simply with the population curve.

The *Commerce Monthly* for November contains the results of another investigation which is based on building permits issued in 66 urban centers with 1913 as the base and on the same assumption as to the relation between building and population. With the general conclusions of this excellent article I find myself in substantial agreement. The specific conclusion reached in regard to the shortage was that at the end of 1924 a deficit of over three billion dollars remained, which, however, at the current rate of activity would be largely eliminated before the end of 1925. If these figures be corrected to take account of the fact that the 66 urban centers selected account for not "roughly one-half" as stated, but probably for less than one-third of the total building of the country as a whole, they will not be far from results obtained by my own investigations.

However, as already hinted, I do not agree with the underlying assumption of

(Continued on page 14)

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Palace of Fashion, Sesqui Grounds, Philadelphia. Architect, Andrew J. Sauer, Schaff Building, Philadelphia. Owner, care of architect. Sketches drawn.

Aerial and Underground Cables and Conduit System, Philadelphia, $3,000,000. Architect, private plans. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Plans in progress.

Telephone Exchanges (alts.), Philadelphia, $500,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Work contemplated. Plans in progress.

Sesqui-Centennial Building, Philadelphia. Architect, C. R. Hope, Dupont Building, Wilmington, Del. Owners, State of Delaware, Hon. Robt. P. Robinson, Governor, State House, Dover, Delaware. Stucco, metal lath and steel, 2 stories. Plans in progress.

Home (add.), Old York road, Jewish Hospital, Philadelphia. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owners, Lucien Moss Home, A. Greenebaum, chairman of Building Committee, on premises. Brick, limestone, 3 stories and basement and solarium, 40x85 feet, built-up roof, terrazzo floors, steam heat, electric light. Plans in progress.

Swimming Pool and Recreation Centre, Fourth and McKean streets, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Bureau of Recreation, Department of Public Welfare, City Hall. Plans in progress. Too early for details.

Gymnasium and Swimming Pool, 1819 Arch street, Philadelphia. Owners, Catholic Young Men's Association, care of Rev. D. J. Daly, on premises. Work contemplated. Architect not selected.

Through the Orient Building, Sesqui Grounds, Philadelphia. Architect, Edward L. Rothschild, Bankers' Trust Building, Philadelphia. Owners, Oriental Concessions, care of architect. Steel, metal lath, stucco, electric light, slag roof, pine floors. Sketches drawn.

Residence, Chestnut Hill, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, A. R. Bensinger, Ardmore avenue and Wynmore avenue, Chestnut Hill. Plans in progress.

Manufacturing Building, Aramingo, Tulip street and Pennsylvania Railroad, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, J. Warren Watson Co., care of architect. Brick, steel, 1 story, 783x124 feet. Plans about completed. Architect will be ready for bids in a few days.

Apartments (add.), 1600 Delaware avenue, Philadelphia, $20,000. Architect, private plans. Owner, J. M. Frere, on premises. Brick, steel, frame, 2 stories, 38x90 feet, hardwood floors, composition roof, hot water heat, electric light, metal lath, marble and terrazzo work, fire doors, tile bath, hollow tile, metal weather strip, waterproofing and dampproofing, wire work, built-in kitchen furniture, Murphy or equal beds. Owner will build and take sub-bids.

Sales and Maintenance Building, Broad street at Ridge avenue, Philadelphia. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owners, Cadillac Motor Car Co., 144 North Broad street, Philadelphia. Brick, cut stone, cast stone, steel, 8 stories and basement, slag roof, cement floors, elevators, painting and glazing, roof ventilators, plumbing, R. I. W. waterproofing, architectural terra cotta, area gratings, bond, fire doors, hollow metal sash, tile and marble work, metal lath, electric light. Architect taking bids due January 12th at noon.

Apartment House, Southeast Corner Twenty-third and Walnut streets, Philadelphia. Architect, Joseph Margolis, 1505 Race street, Philadelphia. Owner, Joseph Rabinowitz, Northeast Corner Thirty-seventh and Walnut streets, Philadelphia. Brick, cut stone, steel, 13 stories, basement, and power house, 62x106 feet, slag roof, oak, pine and cement floors, elevators, steam heat, electric light, metal lath, tile, marble and terrazzo work, bond, ornamental iron work. Owner ready for bids.

Residences (100), Frankford and Robbins streets, Philadelphia. Owner, T. P. McDevitt, Summerdale and Bridge streets, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and cement floors, garages in basement, hot water heat, electric light, metal lath. Owner will be ready for sub-bids in 10 days.

Fire House, Hancock and Columbia avenue, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, City of Philadelphia, Bureau of Fire, Department of Public Safety. Brick, cut stone, steel, reinforced concrete, 2 stories and basement, slag roof, cement floors, painting and glazing, hardware, plumbing, oil burner, electric light, ornamental iron work, limestone, steel lockers, brass slide pole. Ready for bids in a week.

Apartment House, 4109 Walnut street, Philadelphia. Architect, G. Harold Murphy, Drexel Building, Philadelphia. Owner, George T. Sales, Liberty Building, Philadelphia. Brick, stone, steel, 4 stories, hardwood floors, elevator, electric light, tile work. Plans completed. Owners will take general bids.

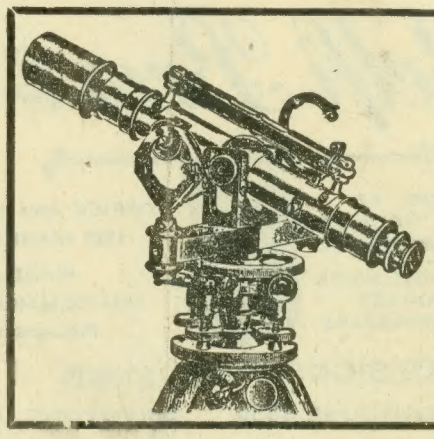
Apartment House, 1661 East Harrison street, Philadelphia. Architect, G. Harold Murphy, Drexel Building, Philadelphia. Owner, George T. Sales, Liberty Building, Philadelphia. Brick, steel, 4 stories. Architect taking bids due January 13th.

Fire and Flame Building, Sesqui Grounds, Philadelphia. Architect, Gabriel B. Roth, 1629 Chestnut street, Philadelphia. Owners, Talbot & Baughman, North American Building, Philadelphia. Metal lath, stucco, steel, electric light, slag roof, pine floors. Plans completed. Ready for bids.

Storage Warehouse, 237-53 Church lane, Philadelphia. Architect, George S. Kingsley, 1452 Broadway, New York. Owners, Wallace Storage & Carpet Cleaning Co., 1826 North Twentieth street, Philadelphia. Reinforced concrete, brick, 6 stories and basement, 75x120 feet, slag roof, concrete floors, hollow tile, elevators, plumbing, metal window guards, metal ceilings, waterproofing, architectural terra cotta, ornamental iron work, bond, hollow metal doors, galvanized iron skylights, hollow metal sash, marble and terrazzo work, metal lath, electric light, steam heat, caenstone, metal toilet partitions. Architect taking bids due January 7th.

Office Building, Northeast Corner Juniper and Arch streets, Philadelphia. Architect, Leroy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Lawyer Building Co., care of Fred Felt, Franklin Trust Building, Philadelphia. Brick, cut stone, limestone, granite, steel, 12 stories and basement, 125x39 feet, Barrett specification roof, cement floors, painting and glazing, plumbing, metal weather strip, dampproofing, vacuum steam heat, electric light, metal lath, marble and

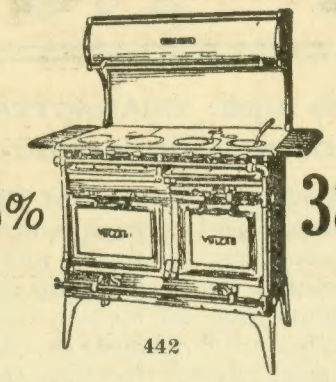
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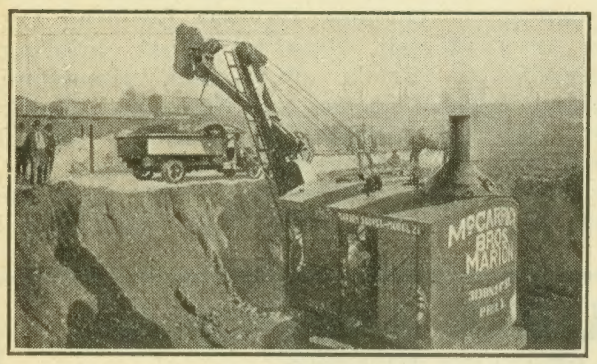
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terrazzo work, hollow metal sash, rolled steel skylights, kalamein and hollow metal doors, ornamental iron work, iron stairs, area gratings, oil burners, metal toilet partitions, wrought iron pipe, sprinkler system. Architect taking bids due January 12th.

Creation Building, Evolution of the Dreadnought Building, Battle of Gettysburg Building, Sesqui Grounds, Philadelphia. Owners, McConnell Concessions, Los Angeles, Cal. Steel, metal lath, stucco, slag roof, pine floors, electric light. Mr. Cash, Sesqui Committee, taking bids.

Restaurant and Office (alts.), 1425-27 Chestnut street, $30,000. Architects, Dennison & Hirons, 288 Lexington avenue, New York. Owners, Childs Restaurant Co., 200 Fifth avenue, New York. General alterations. Permit granted.

Apartment House, 320-22 South Twelfth street, Philadelphia, $50,000. Architect, private plans. Owner, Louis Hersin, 2109 Spring Garden street, Philadelphia. Brick, 4 stories, 32x38 feet, slag roof, electric light, hardwood and pine floors. Permit granted.

Sprinkler Tank, Northeast Corner Allegheny avenue and Richmond street, $10,000. Owners, Baeder-Adamson Co., on premises. Permit granted.

Supplies, Philadelphia. Owners, Department of Supplies, 312 City Hall. Owners taking bids due January 11th at noon. Crushed pebbles, binder slag, crushed stone, asphaltic cement, limestone, sawdust and asphalt repair sand. Certified check 5 per cent. of amount of bids.

Improvements, Cliveden Park, Johnson and Musgrave streets, Philadelphia. Owners, Department of Public Works, Bureau of City Property, Philadelphia. Low bidders: J. S. Creamer, 1739 North Twenty-sixth street, Philadelphia, $2,379, $1,739; J. E. Houseworth, 2512 North Twenty-seventh street, Philadelphia, $2,977, $1,537.

Miscellaneous Work, Philadelphia (low bids). Owners, Department of Public Works, Bureau of Surveys, City Hall, Philadelphia. Schedule A, branch sewers, Colman, Fifty-eighth to Fifty-ninth streets, Philadelphia, J. J. McHugh, 1617 Race street, Philadelphia, $2,031; Fifty-second street, Lebanon avenue to Diamond street, A. Mattio, care of owner, $2,935.40; Lebanon avenue, Fifty-second to Upland Way, F. T. Buckius, Jr., Kensington and Deal streets, Philadelphia, $5,000; Sanger street, Saul to Large, McIntyre Const. Co., care of owner, $1,702; Woolstin street, Middleton to Walnut Lane, J. J. McHugh, 1617 Race street, Philadelphia, $4,885.60.

Schedule B—Main sewer, Rowland avenue, Tudor to Bleight, V. S. Campellone, 812 West Venango street, Philadelphia, $6,766.50.

Schedule C, intercepting sewer along Tacony Creek, H. A. Hamilton, Greene street and Cheltn avenue, Philadlphia, $83,934.74. Discharge pipe, Southwest Sewage Pumping Station to Eagle Creek, V. S. Campellone, 812 West Venango street, Philadelphia, $4,000.

Schedule B, borings, Pennsylvania Terminal, J. B. Rulon, 1355 Colwyn street, Philadelphia, $10,410.

Supplies, Philadelphia. Owners, City of Philadelphia, Department of Supplies, 312 City Hall, Philadelphia. Class 116 for crushed pebbles, binder slag, crushed stone, asphaltic cement, limestone, dust and asphalt repair sand. Owners taking bids due January 11th at noon at 329 City Hall.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Church (fire repairs), Northwest Corner Tulip and Dauphin streets, Philadelphia, $60,000. Architect, private plans. Owners, Summerfield Methodist Episcopal Church, on premises. General fire repairs. Contract awarded to Harry Brocklehurst, 512 West Norris street, Philadelphia.

Factory, Northwest Corner Tioga and Gaul streets, Philadelphia, $30,000. Architect, private plans. Owner, John M. Kennedy, 406 South Van Pelt street, Philadelphia. Brick, steel, reinforced concrete, 2 stories, 60x216 feet. Contract awarded to Joseph K. Long, 1619 North Robinson street, Philadelphia.

Store and Residence (add. and alts.), 5602 North Fifth street, Philadelphia, $3,500. Architect, private plans. Owner, Daniel Taylor, 5602 North Fifth street, Philadelphia. Brick, 2 stories add., 16x30 feet, general alterations. Contract awarded to Julius Solomon, 1228 North Franklin street, Philadelphia.

Exposition Building, Broad and Patterson

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streets, Philadelphia. Architect, private plans. Owners, Paj. Mahal Trading Co., London, England. Metal lath and stucco, steel, 2 stories, 250x210 feet, slag roof, pine floors, electric light, wood piles. Contract awarded M. Melody Sons Co., 1322 Race street, Philadelphia, $1,000,000.

Sales and Service Building, 4731 North Broad street, Philadelphia. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owners, Studebaker Sales Co., 216 North Broad street, Philadelphia. Brick, steel, 1 story and basement, 55x155 feet, steam heat, electric light, slag roof, cement floors. Contract awarded Mitchell Brothers, 2125 Race street, Philadelphia.

Store and Apartments (5), Southeast Corner Seventh and Spring Garden streets, Philadelphia. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owner, S. K. Alman, on premises. Brick, 3 stories, 16x55 feet each, slag roof, pine floors, hot water heat, electric light, tile and marble work, plumbing, pine floors, plate glass, mill work, cement, copper bulks. Contract awarded Golder Const. Co., 263 South Fifteenth street, Philadelphia.

Building (alts. and add.), Church and Tacony streets, Philadelphia, $31,000. Architect, private plans. Owners, F. P. Woll & Co., on premises. Brick, steel, concrete, 2 stories, 28x49 feet, slag roof, cement floors, electric light, tile work, ornamental iron work. Contract awarded William F. Newberry Co., Otis Building, Philadelphia.

Residence (add. and alts.) and Garage, East side Wissahickon avenue, South of Westview street, Philadelphia, $12,000 total. Architect, Carl A. Ziegler, 1012 Walnut street, Philadelphia. Owner, Anne Strawbridge, on premises. Brick, 2 stories add., 19x12 feet 10 inches, garage, stone, 1 story, 21x27 feet, pine and cement floors, tile work, electric light. Contract awarded to E. Allen Reeves, Abington, Pa.

Store and Storage (add. and alts.), 2947-49 Kensington avenue, $11,500. Architects, Penwood Co., 139 North Fifteenth street, Philadelphia. Owner, John Yelson, 2960 Ruth street, Philadelphia. Brick, 3 stories add., 36x66 feet, general alterations. Contract awarded to Schechtman Brothers, 1924 North Marshall street, Philadelphia.

Fire Repairs, 5549 Germantown avenue, Philadelphia. Architect, Harold Holmes, Detroit, Mich. Owners, S. S. Kresge Co., Detroit, Mich. Carpentry and mill work, plastering, painting, glazing, hardware, tile work, electric work. Contract awarded Fred Elvidge & Son, 5522 Germantown avenue, Philadelphia.

Warehouse (alts.)), 234-36 North Front street, Philadelphia, $14,000. Architect, private plans. Owner, J. W. Perkins, 234 North Front street, Philadelphia. General alterations. Contract awarded to Roberts & Roller, 1700 Walnut street, Philadelphia.

Apartment House (add. and alts.), Northwest Corner Fortieth and Reno streets, $8,000. Architect, private plans. Owner, S. Solomon, 1702 North Froty-second street, Philadelphia. Brick, 3 stories add., rear 10x13 feet, front 18x18 feet, general alterations. Contract awarded to M. Ring, 4219 Viola street, Philadelphia.

Store and Residence (alts.), Southwest Corner Twenty-first and Montgomery avenue, $5,500. Architect, private plans. Owner, W. W. Ferndall, 1726 North Twenty-first street, Philadelphia. General alterations. Contract awarded to B. M. Glashofer, 529 Morris street, Philadelphia.

Store, Northeast Corner Wissahickon avenue and Ruffner street, Philadelphia, $3,000. Architect, private plans. Owner, Charles W. Irvin, 226 South Seventh street, Philadelphia. Brick, 1 story, 14x24 feet, slag roof, pine floors, electric work. Contract awarded to Edward G. Carroll, Jr., 5203 Germantown avenue.

Warehouse (alts.), 222-24 Wood street, Philadelphia, $8,000. Architect, private plans. Owner, Jerome B. Tardella, Jr., Northwest Corner Fifteenth and Locust streets. General alterations. Contract awarded to C. F. Roeger, 617 Delancey street, Philadelphia.

Residence (alts.), 231 South Thirty-ninth street, Philadelphia, $5,000. Architect, private plans. Owner, Rev. Robert H. Gearhardt, 231 South Thirty-ninth street, Philadelphia. General alterations. Contract awarded to A. Raymond Raff Co., 1635 West Thompson street.

Store (alts.), 1109 Chestnut street, Philadelphia, $3,000. Owners, Girard Estate, 1109 Chestnut street, Philadelphia. General alterations. Contract awarded to George Weiss Co., 701 East Girard avenue, Philadelphia.

Store and Residence (alts.)), 442-44 North Second street, Philadelphia, $3,000. Architect, private plans. Owner, Harry Weingast, on premises. General alterations. Contract awarded to M. Cherry, 137 North Tenth street, Philadelphia.

Store and Residence (alts.), 820 Diamond street, Philadelphia, $2,300. Architect, private plans. Owner, Charles Gross, Land Title Building, Philadelphia. General alterations. Contract awarded to Samuel Lang, 656 Washington street, Camden, N. J.

Residence, West side Thuron street, North of Gorgas lane, $8,000. Architect, private plans. Owner, Harry Wambold, Chestnut Hill, Pa. Stone and cinder block, 2 stories, 31x42 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to Harry C. Moore, Erdenheim, Pa.

Residence, 939 Atwood road, Philadelphia, $7,500. Architect, private plans. Owner, B. Favian, 6850 Lancaster avenue, Philadelphia. Brick, 2 stories, 24x28 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to S. J. Delester, 939 Atwood road, Philadelphia.

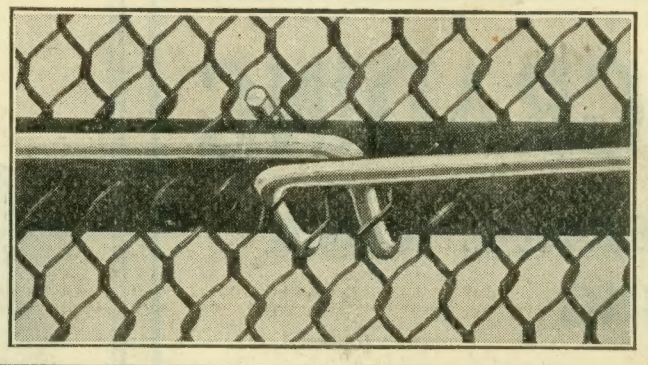
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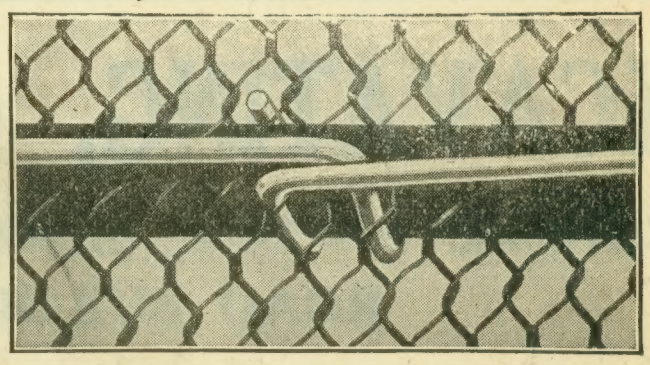
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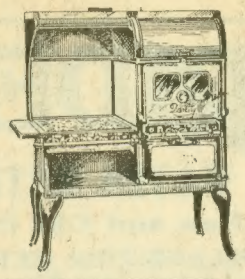




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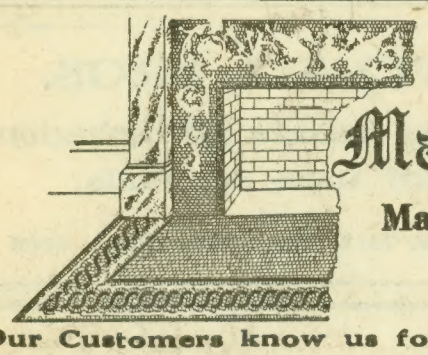
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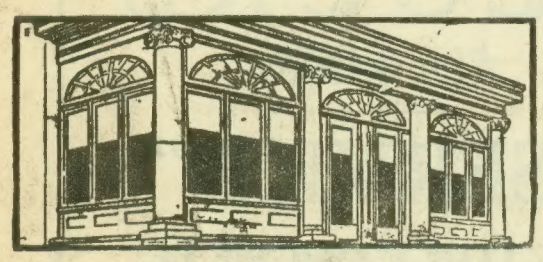
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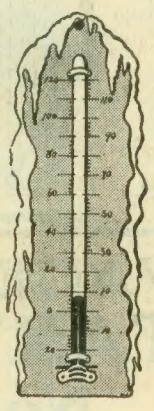
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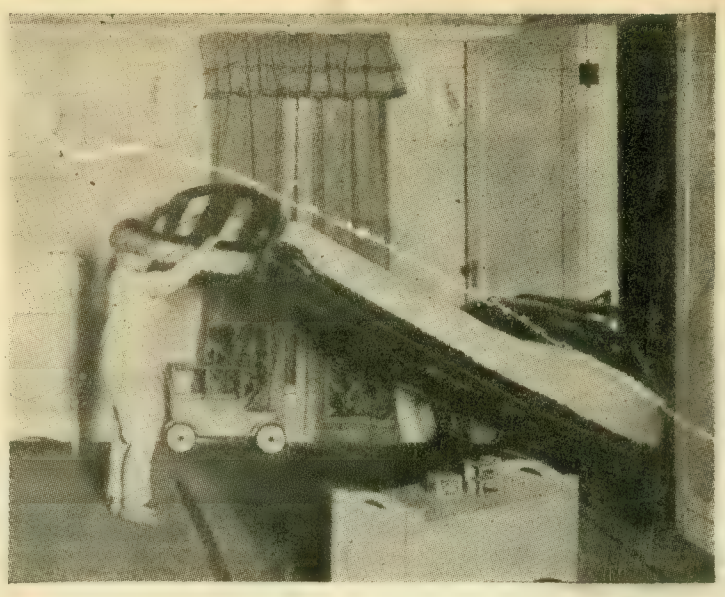
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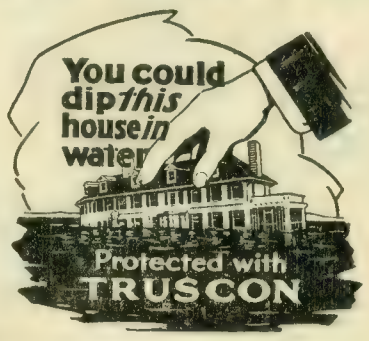


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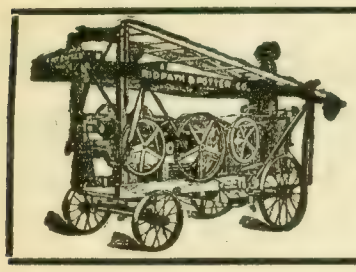
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PENNSYLVANIA Construction News

Theatre, Bala, Pa. Architects, Hoffman-Henon Co., Finance Building, Philadelphia. Owner, P. J. Lawler, Upper Darby, Pa. Brick, steel, concrete, terra cotta. Plans in progress. Architects will be ready for bids in about one month.

Office Building (add. and alts.), Bryn Mawr, Pa. Architect, private plans. Owners, Philadelphia-Suburban Water Co., care of Mr. Crawford, Fox Building, Philadelphia. Brick, steel, local stone, 2 stories, 40x40 feet, 22x40 feet, slag roof, reinforced concrete and linoleum floors, hot water heat, electric light. Owners taking new bids due January 11th.

Stores (4), Offices (4), Apartments (1), Ardmore, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, H. J. Rittenhouse, Ardmore, Pa. Brick, steel, stucco, 3 stories and basement, 88x82 feet, slag and slate roof, oak and pine floors, electric light, metal lath, ornamental iron. Architects taking bids due January 13th.

Theatre, Stores and Offices, Red Lion, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, W. J. Rothensies, care of architects. Brick, steel, 2 stories, 60x150 feet, slag roof, maple floors, hollow tile, steam heat, electric light, metal lath, tile and marble. Plans in progress.

Hospital (add.), Frederick, Md. Architect, Edward Leber, Hay Building, York, Pa. Owners, Frederick City Hospital, Frederick, Md. Brick, fireproof, 3 stories and basement, 48x165 feet, built-up roof, composition floors, hollow tile, elevators, roof ventilators, kitchen equipment, tile and marble, metal lath, heating extension, electric light. Architct will take bids in two weeks.

Church, Seventeenth and Market streets, Harrisburg, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Memorial Lutheran Church, Dr. Lewis Menges, Harrisburg, Pa. Granite, steel, 1 story and basement, 82x122 feet, slate roof, maple and tile floors, hollow tile, steam heat, electric light, metal lath, tile and marble. Architect taking bids due January 9th.

Store Building, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, A. S. Groff, 111 East King street, Lancaster, Pa. Steel, brick, hollow tile, 2 stories and basement, 30x170 feet, built-up roof, pine floors, roof ventilators, cast stone, ornamental iron work, skylights, tile and marble (heating and plumbing reserved), electric work. Architect taking bids due January 10th.

School, Manheim, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Manheim School Board, care of architect. Brick, steel, 1 story, 200x100 feet, built-up roof, maple floors, hollow tile, safety treads, metal lath, Warren-Webster heat, electric light. Architect taking bids due January 22nd.

House, College Campus, Swarthmore, Pa. Architects, Karcher & Smith, 1520 Locust street, Philadelphia. Owners, Swarthmore College (6 Sororities), Swarthmore, Pa. Stone, 1½ stories. Sketches drawn.

Residence and Garage, Lower Merion, Pa., $20,000. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, E. Larney, 551 North Fifty-second street, Philadelphia. Stone, cinder block and stucco, 2 stories, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Printing Building, Conshohocken, Pa. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Conshohocken Recorder, on premises. Brick, steel, 1 story. Plans in progress.

Residence, Haverford, Pa. Architect, R. Brognard Okie, 308 South Smedley street, Philadelphia. Owner, Erskine M. Smith, care of architect. Stone, 2½ stories, shingle (wood) roof, hardwood floors, electric light, tile work. Plans in progress.

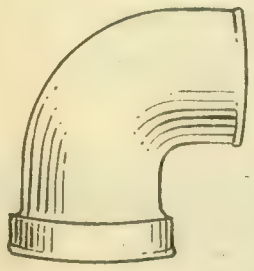
Hospital (add.), Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Mercy Hospital, J. Long Stern, secretary, Wilkes-Barre. Brick, stone, steel, 4 stories and basement, slag roof, composition floors, metal weather strip, waterproofing and dampproofing, ornamental iron, iron stairs, bond, fire doors, skylights, tile and marble, metal lath. Owners taking revised bids.

Residence, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, name withheld. Brick, 2½ stories, 28x71 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Residence (add. and alts.), Newport, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, Dr. Carl, Newport, Pa. Brick, 2 stories, 12x30 feet, slate roof, pine floors, general alterations. Plans in progress.

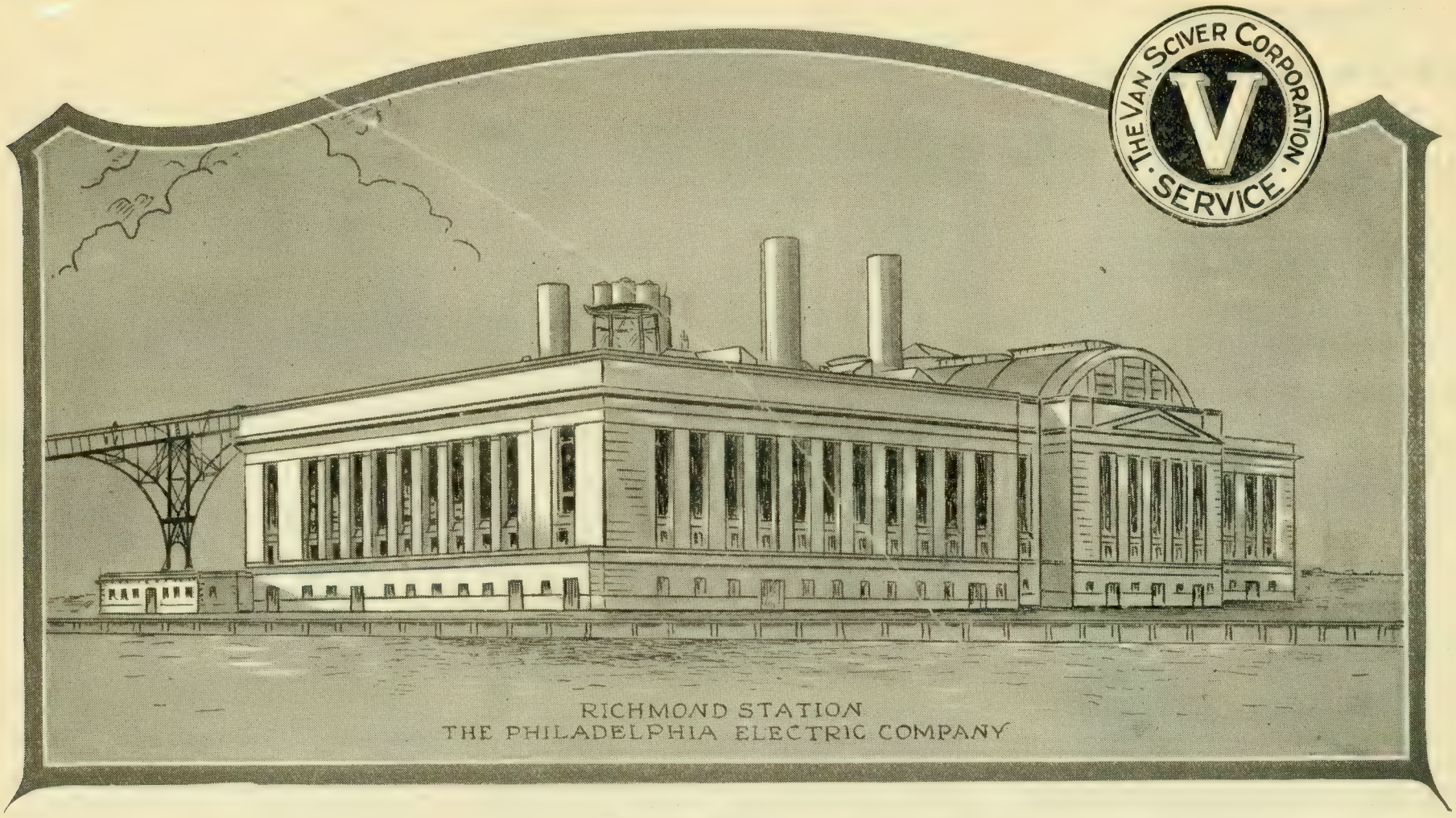
Printing Plant, Easton, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Eschenbach Printing Co., 207 Church street, Easton, Pa. Brick, steel, 1 story, 123x302 feet, gypsum saw-tooth const. roof, steam heat, electric light, rolled steel sash, hollow metal skylights. Plans in progress. Architects will be ready for bids in 3 weeks.

School (fire rebuilding), Seyfert, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, Robeson School District, A. Glass, Geiger Mill, Pa. Brick, 2 stories, 28x41 feet, slag roof, pine floors. Architect ready for bids.

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Pennsylvania Contracts Awarded

Manse, Beverly Hills, Delaware County, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owners, United Presbyterian Church, Rev. C. O. Smith, 3806 Hamilton street, Philadelphia. Stone, 2½ stories, 30x31 feet, metal lath, slate roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Contract awarded to B. J. Campbell, 939 Flanders road, Overbrook, Pa.

Junior Seminary and Chapel, Overbrook, Pa., $3,000,000. Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owners, St. Charles of Borrameo Seminary, D. Cardinal Dougherty, Eighteenth and Race streets, Philadelphia. Brick, steel, cut stone, reinforced concrete, 3 stories, 2 stories and basement and sub-basement, 597x47 feet, 106x40 feet, 117x130 feet, 3 wings 194x44 feet, promenade tile, green slate and composition roof, cement, pine and oak floors, safety treads, waterproofing, architectural terra cotta, ornamental iron work, iron stairs, copper skylights, rolled steel and hollow metal sash, tile, marble and terrazzo work, metal lath, travertine, oak, linoleum floors, dumb waiters, painting and glazing, Holmesburg granite, Green River limestone, yellow castor stone, Travernalle marble, Alberne stone, Lehigh black slate, integral waterproofing, (alt.) Mt. Airy granite, bronze work, metallic doors, tin-clad doors, area gratings, bronze doors, ornamental plaster (plumbing, heating, electric and ventilating reserved). Contract awarded McCloskey Co., Inc., 1620 Thompson street, Philadelphia.

Parochial School, Cornwell Heights, Bucks County, Pa. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Charles' Roman Catholic Church, Rev. F. I. Flood, Cornwell Heights. Stone, brick, cut stone, 2 stories and basement, 54x110 feet, block, slate roof, maple and pine floors, painting and glazing, plumbing, metal ceilings, shoring, vapor heat, electric light, metal lath, rolled steel sash, bond, bluestone, metal toilet partitions. Contract awarded D. W. Odea, 420 Duncannon street, Philadelphia.

Theatre, Store and Apartment (superstructure), York and Davisville road, Willow Grove, Penna. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia, Pa. Owners Rothwell Company, Willow Grove, Penna. Brick, steel, 1 and 2 stories, 200x60 feet, composition slag roof, cement and composition floors, hollow tile, plate glass, metal sash, cinder block, metal partitions, rolled steel skylights, bond, ornamental iron work, iron stairs, cast stone. Contract awarded F. K. Worley, Wesley Building, Philadelphia.

Store (alts.), Jenkintown, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Felbin Brothers, Jenkintown, Pa. Painting and glazing, metal ceilings, carpentry and mill work, copper bulks, steel work, plate glass, electric work, composition floors. Contract awarded C. T. Clark, Germantown and Sedgley avenue, Philadelphia.

Alterations and Additions, 10 East Athens avenue, Ardmore, Pa. Architects, Stuckert & Co., 1420 Chestnut street, Philadelphia. Owners, Scott-Powell Dairies, Ardmore, Pa. Brick, steel, 2 stories, 16x25 feet, ornamental iron work, rolled steel shutters, concrete and cemnt floors, steel sash, carpentry and mill work, painting, hardware, plastering, plumbing, bond, steel door frames, mastic floors, slag roof, metal lath (cork insulation, refrigerator doors, steam heat, power piping, electric wiring reserved). Contract awarded Metzger, Fisher & White, Otis Building, Philadelphia.

Store and (2) Apartments (alts.), 212 West State street, Media, Pa. Architect, E. L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Phil Green, 4019 Girard avenue, Philadelphia. General alterations, hot water heat, electric light, tile work, hardwood and rubber tile floors, plate glass, metal ceilings, flush bulks, metal bars. Contract awarded John McIntyre, 2312 South Hicks street, Philadelphia.

Farm House (alts. and add.)), Philmont, Pa. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owners, Bray Farms, on premises. Stone, 1 story add., 20x38 feet, shingle roof, promenade tile floor, electric light, mill work, plumbing, brick fireplaces. Contract awarded S. H. Levin, Elrae Building, Philadelphia.

Municipal Building, Steelton, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, care of J. C. Craig, Steelton, Pa. Fireproof, architectural terra cotta, 3 stories, slag roof, composition and tile floors, vapor heat, electric light, tile and marble, metal sash. Contract awarded to J. W. Pomraning, Mech. Tr. Building, Harrisburg. Heating to Leo T. English, 1405 North Third street, Harrisburg, Pa. Plumbing to Newkam Brothers, 1847 Derry street, Harrisburg, Pa. Electric to Columbia Elec. Co., 1253 Market street, Harrisburg, Pa.

Residence, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owner, William McIlvain, Colonial Trust Building, Reading, Pa. Brick, 2½ stories, 36x72 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to William Fromm, 706 North Thirteenth steret, Reading, Pa.

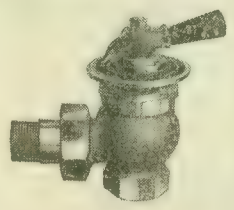
Residence, Jenkintown, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Roy J. McKee, Jenkintown, Pa. Stone, 2½ stories, 52x45 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, plumbing, bond, ornamental iron work, flagstone. Contract awarded C. Harry Seasholtz, Elkins Park, Pa.

Garages (2), Stoddart Tract, Meadowbrook, Pa. Architect, C. A. Ziegler, 1012 Walnut

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street, Philadelphia. Owner, Alice Herkness, on premises. Stone, half timber, 1 story, 20x23 feet each, hot water heat, electric light, shingle roof, cement floors, plumbing. Contract awarded Stahl & Walton, Willow Grove Pa.

New Jersey Construction News

Apartment House, Virginia avenue and Boardwalk, Atlantic City, N. J. Architect, G. Harold Murphy, Drexel Building, Philadelphia. Owner, George T. Sales, Liberty Building, Philadelphia. Brick. Plans in progress.

Apartment House, Atlantic City, N. J. Architect, G. Harold Murphy, Drexel Building, Philadelphia. Owner, George T. Sales, Liberty Building, Philadelphia. Plans in progress.

Lodge Building, Bridgeton, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, Fraternal Order of Eagles, Bridgeton, N. J. Brick. Plans in progress.

Theatre (moving picture), 31 King's Highway, Haddonfield, N. J. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Hunt's Theatre Corp., 1324 Vine street, Philadelphia. Brick, steel, limestone, 3 stories and basement. Plans in progress.

Church (alts.) and Convent, Burlington, N. J. Architect, R. A Schumann, 202 West State street, Trenton, N. J. Owners, All Saints' Church, Burlington, N. J. Brick, 2 stories. Preliminary plans in progress.

Physics Building, New Brunswick, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, New Jersey Agricultural College, care of architects. Fireproof, 3 stories, 50x140 feet, slag roof, cement, rubber tile and terrazzo floors, roof ventilators, steam heat, electric light, tile and marble, steel sash and skylights. Plans in progress.

Synagogue, Mercer street, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Workman Circle, Branch No 90, J. Speckter, president, care of architect. Brick, steel, 3 stories, 45x100 feet, slag roof, hardwood floors, hollow tile, roof ventilators, ornamental iron, iron stairs, skylights, tile work, metal lath, steam heat, electric light. Architect ready for bids in two weeks.

Residence and Garage, Southwest Corner Pacific and Aster road, Wildwood Crest, N. J. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, George S. Dunlap, care of architect. Brick, limestone, 2½ stories and basement, 41x31 feet, garage, 1½ stories, 20x24 feet, variegated slate roof, tile, oak and pine floors, plumbing, hot water heat, electric light, Penetrite waterproofing, area gratings, linoleum floors. Architects taking bids due January 9th.

Buildings (2), Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton Owners, Trenton Potteries, North Clinton and Ott streets, Trenton, N. J. Fireproof, 1 story, 40x400 feet and 80x80 feet, tile and slag roof, concrete floors, electric light, roof, steel sash, fire doors. Architect taking bids.

High School, Phillipsburg, N. J. Architect, Ernest Sibley, Palisades, N. J. Owners, Board of Education, Phillipsburg, N. J. Drawing plans.

Steel Tank and Water Works, Vineland, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Home for Feeble Minded, Vineland, N. J. Architects taking bids due January 18th.

Dining Hall, Vineland, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Home for Feeble Minded, Vineland, N. J. Hollow tile, brick and steel, 1 story, 50x146 feet, slate roof, terrazzo floors, roof ventilators, waterproofing and dampproofing, metal lath, skylights, steam heat, electric light. Architects taking bids due January 18th.

Cold Storage Plant, Trenton, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, Trenton Hospital, care of architects. Steel shelving. Architects taking bids due January 18th.

Residence, Store and Office Building, Federal and Broadway, Camden, N. J. Architect, Ralph Benckert, Bellvue Court Building, Philadelphia. Owners, Mastbaum Brothers & Fleisher, South Penn Square, Philadelphia; Horn & Hardart Baking Co., Camden, N. J. Brick, steel, concrete, limestone, granite, 2 stories and basement, 115x40 feet, slag roof, cement and pine floors, painting and glazing, metal lath, tile, marble and terrazzo work, hollow metal door, bond, iron stairs, ornamental iron work, shoring, painting and glazing, Truscon waterproofing, caulking, ornamental plastering, Sanymetal partitions. Architect taking bids due January 9th.

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New Jersey Contracts Awarded

Storage House, 1450 Ferry avenue, Camden, N. J., $24,000. Architect, F. Herbert Radey, Collingswood, N. J. Owners, Penn Jersey Steel Co., 1202 Chestnut street, Philadelphia. Block and steel, 1 story, 200x70 feet, slag roof, electric light. Contract awarded to Joseph D. Hill, Collingswood, N. J.

Residences (2), 326-28 North Forty-first street, Camden, N. J., $9,000. **Residences (2),**

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226-28 South Forty-first street, Camden, N. J., $9,000. Architect, Alfred Green, 23 Broadway, Camden, N. J. Owner, Mrs. Kate Bentley, Camden, N. J. Frame, 2 stories, 15x38 feet 6 inches each, slag roof, hot air heat, electric light. Contract awarded to Robert Williams, 512 North Seventh street, Camden, N. J.

Private Patient Building, Camden, N. J. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, The Cooper Hospital, Camden, N. J. Brick, reinforced concrete, steel, stone, 3 stories and basement, 134x81 feet (plumbing, heating, electric, elevators, dumb waiters reserved), slag roof, cement and linoleum floors, hollow tile roof, ventilators, metal weather strips, shoring, Aquabar waterproofing, metal lath, marble and terrazzo work, rolled steel sash, fire and kalamein doors, bond, iron stairs, ornamental iron work, limestone, granite, mackite partitions, metal corner beads, steel partitions, rubber floors. Contract awarded W. R. Dougherty, 1610 Sansom street, Philadelphia.

Residences (4), 3019-21-25-27 Fenwick road, Camden, N. J., $16,000. Architect, private plans. Owner, Peter Gondolf, 3035 Tuckahoe street, Camden, N. J. Brick, 2 stories, 16x36 feet, slag roof, pine floors, warm air heat, electric light. Contract awarded to Milton Corson, 814 Morgan street, Camden, N. J.

Stable, Southwest Corner Sixth and Atlantic avenue, Camden, N. J., $3,000. Architect, private plans. Owners, Young & Metzner, Camden, N. J. Block, 1 story, 18x50 feet, slag roof, electric light. Contract awarded to Victor Bezahler, 1027 Atlantic avenue, Camden, N. J.

Dam, Almonessen, N. J., $10,000. Owners, Gloucester County Board of Freeholders, Woodbury, N. J. Concrete, steel and timber. Contract awarded George S. Miller & Co., Pitman, N. J.

Miscellaneous Construction News

Residences (12), 600-22 West Twenty-seventh street, Wilmington, $6,000. Architect, private plans. Owner, Charles P. Wetsell, 2523 Jefferson street, Wilmington, Del. Brick, 2 stories, 20x28 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residence, 2111 West Seventh street, Wilmington, Del., $3,200. Architect, private plans. Owner, F. Grovannozzi, 2126 West Eighth street, Wilmington, Del. Brick, cinder block, 2 stories, 16x36 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Miscellaneous Contracts Awarded

Bakery, Albany, N. Y. Architect, Alexander F. Smith, 811 Penn street, Reading, Pa., and Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, Kolb Baking Co., Albany, N. Y. Reinforced concrete, brick and steel, 1 and 2 stories and basement, 171x171 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, ornamental iron work. Contract awarded to Victor Gondos, 536 Court street, Reading, Pa.

Tire Shop, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner, C. W. Hazel, 123 West Eleventh street, Wilmington, Del. Brick, steel, 1 story, 34x104 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, ornamental iron. Contract awarded to A. L. Lauriston, 609 Concord avenue, Wilmington, Del.

(Continued from page 4)

these two studies. I have always believed that Dr. W. I. King was right is assuming that the volume of buliding was dependent as much on growth of population as on magnitude of population and that building activity in different times and places could be compared satisfactorily only through the use of a composite index combining the two factors, namely, old population and new population, or population magnitude and population growth. By fitting a straight line to the data representing the volume of per capita building permits related to population growth in 41 representative cities for the decade 1910 to 1919, he ascertained that the normal building requirement in dollars of 1913 purchasing power was $8.59 per capita for the old population and $1,191.00 for each person added to the population. On this basis he found that 1924 was the first year in which any progress had been made in eliminating the accumulated building deficit and that on January 1, 1925, a shortage of over seven billions in current dollars remained.

While agreeing with Dr. King's theory and method, I have always felt that his results were incorrect, because of the wholly abnormal period selected—the decade which included the war years. In particular his estimate of $8.59 (1913 basis) as the building requirement per capita of old population seemed on general grounds to be too low. We know that reported fire losses alone call for a building requirement of over half a billion dollars a year. We know also that, even allowing the minimum rates, the demand for replacement of buildings because of depreciation and obsolescence is enormous for the country as a whole. When it is remembered that to these requirements should be added the demand due to the rising standard of living and the increasingly varied wants of a prosperous and progressive people (disregarding entirely the factor of growth), it should be apparent that the figure mentioned is very much of an underestimate.

Does a Building Shortage Still Exist?

Using the same assumption but a more normal period and a method which because of its simplicity, not to say crudeness, I hesitate to present to an audience before which a discussion of multiple correlation or of the Fourier formula would seem to be more appropriate, I have obtained markedly different results. To get as close a check as possible on Dr. King's results, I have accepted his own estimates of the annual volume of construction for the country as a whole (based on contracts awarded), the same index of construction costs by which to convert current dollars into 1913 dollars and the estimates of annual population and population growth made by the National Bureau of Economic Research. The fifteen-year period, 1902 to 1916, was selected as the only long period for which adequate data were vailable which had any right to be considered normal. Taking the two decennial periods 1902 to 1911 and 1907 to 1916, and assuming that there was a normal building requirement per capita of old population which might be represented by x and a normal requirement per capita of new population which might be represented by y, we were able to develop two simple algebraic equations of the folowing form:

1. (1902-11):
$$85{,}969{,}000 \times 10x + 16{,}525{,}000y = \$26{,}894{,}000{,}000$$
2. (1907-16):
$$94{,}494{,}000 \times 10x + 16{,}435{,}000y = \$28{,}314{,}000{,}000$$

Solving these simultaneous equations, we found x to have a value of $17.42 and y a value of $721.21. I would have been more doubtful of the results if these values of x and y had not been such as to solve with an error usually under 1 per cent. and only in one case approaching 2 per cent. all similar equations based on the ten-year periods 1903 to 1912, 1904 to 1913, 1905 to 1914, and 1906 to 1915 and also the equation of the whole fifteen-year period 1902 to 1916.

These results do seem to give some basis for the belief that before the war it was the "normal" or customary thing to expend on construction annually in dollars of 1913 purchasing power, $17.42 per capita for the needs of the old population and $721.21 per capita for the needs of the new population. Applying these factors to the average annual population and the annual population increase for each of the years since 1917, we find that in the five years of under-building, 1917 to 1921, the actual volume of construction was no less than $5,149,000,000 (in dollars of 1913 purchasing power) below the normal requirement for that period. Further, we find that this shortage increased during the next two years and that 1924 was the first year in which any headway was made in eliminating it. According to the standards of the 15 years just preceding the war, we should have spent on construction during the past year $5,900,000,000. According to King's estimate, we actually spent $5,900,000,000. On the same basis, the accumulated building shortage on January 1, 1925, amounted in current dollars to no less than $11,097,000,000.

I present these figures of course with hesitation and with no sense of finality. In any case, I would not be so captious as to quarrel over three of four billion dollars. You may prefer to take my results simply as a confirmation of King's general assumption and accept his estimate—that the shortage on January 1, 1925, was approximately 7 billion dollars. But whether you accept his estimate or my

estimate is of little importance. Of chief importance is the new perspective which should have been gained, the new standards by which to judge current building activity. There can now be little doubt that the widely prevalent idea that the volume of construction of the last three years has been wholly unprecedented is without foundation in solid fact. We have been confused by the money measure of this construction volume and we have underestimated the influence of population growth. The simple fact is that until 1924 we were building at a rate appreciably below the normal of the pre-war years and that only in the last few months have we attained a rate very much in excess of that normal. In 1905 the building industry ran 15.5 per cent. above the computed normal for that year while before the outbreak of the great war in Europe the industry exceeded its estimated normal in four sucessive years —namely by 3.1% in 1909, 8.1% in 1910, 13.6% in 1911 and 6.7% in 1912. Last year building was less than 2/10 of 1 per cent. above the estimated normal and if the current rate of activity keeps up to the end of the year, 1925 will close possibly 25 per cent. above the normal which my values of x and y would establish for this year.

But it would be a serious mistake to assume that the normal so computed would be the correct normal for 1925. The fact is that the building normal has changed. What was normal for the building industry in 1902-16 is not the normal of today and was not the normal of the last 7 or 8 years. Hence when we speak of the accumulated building shortage as amounting to 7 or 11 billions at the first of this year, we do not in any sense mean that on that date there was an actual or urgent shortage of buildings of that value—that people were going without roofs over their heads and that business was suffering serious hardship because of inadequate quarters. Every-day observation, the increasing stabilization of rents and the evidence of over-building in some quarters offer sufficient proof that this was not so, at least not in any general sense. What we do mean is simply that the cumulative total of under-building (that is, of building at a rate below the pre-war years) in the 7 years 1917 to 1923 which has not been offset by the overbuilding of the year 1924 amounted to the figure stated.

Will Shortage Ever Be Made Up?

Will this large volume of under-building ever be wholly offset by the over-building of later years? Emphatically no, in my opinion. In fact I believe that by the end of this year the influence of the accumulated deficit will be largely past and further that its influence on the recent volume of building activity has been greatly exaggerated. Its significance has been not so much by way of inflating the actual magnitude of construction operations as in causing a very rapid expansion in the capacity of the building industry and maintaining construction volume at a uniformly high and increasing level regardless of depressed conditions in general business and regardless of a wide and at times increasing spread between building costs and the general price level.

Two or three considerations explain why the deficit will never be wholly made up. In the first place, the deficit was in part made up during the years of under-building by the use of buildings longer than they would otherwise have been used. How important this factor of postponed obsolescence was may be appreciated by a simple calculation of the amount of depreciation and obsolescence of the country's buildings that would accumulate at a rate of 2 or 3 per cent, over a five or six year period. In the second place the rate of population increase during the period 1917 to 1921 was undoubtedly lower than before the war and further the annual increments of population increase in those years as in the years since 1921 would, because of practical or legal immigration restrictions, contain an unduly low proportion of adults and would therefore call for a less than normal amount of building for the needs of the new population.

Unfortunately it is still too early to ascertain with any degree of certainty or accuracy the normal for the period which began in 1922 or 1923. We can only set out on the one hand the forces which will tend to produce a normal lower than the pre-war standard and on the other hand the forces that will make for a higher normal, with a guess as to the net resultant of these two conflicting sets of forces.

Factors Making for Lower Normal

Working to produce a lower normal will be the continuing influence of a factor already mentioned, namely, the legal restriction of immigration and its effect on the proportion of adults in the annual increments of population. This would be accentuated by any slowing up of the rate of population increase, though an increase in the marriage rate or a tendency to earlier marriages would go far to offset this factor.

Perhaps of more importance is the movement to increase the efficiency of building plans. The economies of space which we were forced to introduce as a result of bitter necessity during the war and post-war years have taught us lessons which will mean a permanent reduction in our building demand. The utmost ingenuity is now being exercised by architects, engineers, building managers and all those responsible for the planning and financing of modern buildings to the end that waste space in office buildings, apartment houses, hotels, and even residences may be reduced to the minimum. The vogue of the multi-family apartment house, of the kitchenette or efficiency type of apartment and of the residential apartment hotel is also in part the result of a desire to secure accommodations which will represent a more efficient and more economical utilization of materials and of labor. The relative popularity of these new types of residential facilities will show some variations in the future but, speaking generally, all three have come to stay, and each in varying degree will influence the building demand of the future.

Finally the building normal of the future will tend to be lowered by the use of better methods of construction or more durable materials which will increase the average physical life of American buildings and by increased attention to the planning of both buildings and cities, which will increase the average economic life of urban properties.

Working in the opposite direction are a number of powerful economic forces whose combined effect may be greater than that of those forces which will tend to depress the building normal below the level of pre-war years.

Effect of Rising Standard of Living

Of most importance are those factors which are based on the rapidly increasing wealth of this country and on the fact that the American standard of living is a constantly rising one. Prices and money wages may rise and fall but except for short periods the real incomes of the American people steadily increase.

Now, the building industry is perhaps the nation's most accurate index of the improved standard of living on the part of the American public. It is in the home that one finds expression given to the universal desire of all persons to live more conveniently, more comfortably, more efficiently. Inventions and innovations are constantly being introduced which raise the standards of convenience in the average American home. Hence, we find the demand for two or three baths instead of one, for tiled bathrooms and modern plumbing instead of the tin bathtub and the antiquated fixtures of a decade or so ago, for superior electric fixtures, for breakfast rooms and libraries and sleeping porches, and for all sorts of built-in equipment. Hence, also, we find that the apartment house which was the pride of its district fifteen or twenty years ago has been rendered obsolete or nearly so by the modern style and the diverse facilities of the structures which are being erected today.

And the end is not yet! In spite of the progress which has already been made, it is probably safe to say that less than half of the American people are housed today according to standards which they

believe they have a right to expect. Already concerted efforts are being made in several localities to wipe out the slum districts of our cities and to build so-called "model" suburbs for the housing of our industrial workers. This is a movement which is just beginning, but which we venture to say will multiply in importance in the next few years. The American public is rapidly coming to the conclusion that the slum is not only an anachronism but a serious evil which cannot be and need not be tolerated under American conditions.

The same demand for improved accommodations is not confined to the home. It is found in the modern office building in a demand for the most rapid and most efficient elevator service, for the most efficient ventilation and temperature-regulating installations, for adequate toilet facilities, for rest rooms and lunch rooms and libraries, for safety deposit vaults, for extensive quarters for an elaborate and highly organized administrative staff, for equipment and facilities of the most modern type and for an exterior that combines beauty with utility. The fittings and the "period" furniture of many modern private offices are on a par with the standards of comfort and beauty maintained in the homes of their occupants. In a similar way the high grade modern shop or store is setting new standards in its layout, finish and equipment.

New Type of Facilities

Another result of continual progress and of a rising standard of living is the demand for new types of building facilities to meet new needs. The "popularization" of the automobile, for instance, means that the owners of 16 or 17 million cars now require a garage in which to store their cars in addition to a house in which to live and a place in which to work. Indeed in many cases they need not only a garage or two at their place of residence, but also parking facilities in an up-to-date public garage in the down-town district. In 1923, the garages built in 269 cities called for an expenditure of about $165,000,000, or half the total construction volume for the city of Chicago. Even more important is the demand for down-town and memorial clubs and country club houses. The organization of these social and recreational clubs has in recent years reached the proportions of a "popular movement." Last year over $370,000,000 was spent for this purpose alone. Do not forget also the tremendous effort which the insistent public demand for facilities for travel, play and amusement is having on the construction industry. Think of the hotel facilities which are now demanded, think of Florida, the new playground of America, and think of the huge sums which are now being expended on the construction of elaborate moving picture palaces in all important neighborhoods. Amusement buildings contracted for so far this year have been estimated to cost no less than $250,000,000.

The demand for higher standards of beauty, convenience and efficiency is not confined to the American people as individuals. In their collective capacity as the residents of American cities, they are demanded more and more. Public and quasi-public improvements now in process or in contemplation in our larger cities call for expenditures of huge amounts of money. In Chicago alone it has been estimated that the improvements involved in the South Water Street development, the straightening of the Chicago River, the building of new railroad terminals, the widening of North La-Salle Street and numerous other civic projects will involve an expenditure running into billions of dollars.

The rising standard of living which this improved accommodation and these new demands reflect is a factor that will continue to influence the building industry indefinitely, because it is based on the spirit of progress and is made possible by the abundance and variety of our natural resources, the efficiency of American laborers and the enterprise of the American business man. In other words, our people have a high standard of living because they can afford it. They are demanding that our cities be rebuilt in accordance with their new standards of beauty, comfort and efficiency; and they have the purchasing power wherewith to make their demand effective. These new demands, these rising standards, mean that the process of obsolescence has been speeded up in so far as old buildings are concerned, though more scientific direction of city growth, zoning ordinances, better planning of buildings and the more normal progress of the building arts will probably reduce as already indicated the rate of obsolescence of the buildings which are now being built. The large number of building structures of various kinds which the rising standards of living have made obsolete or practically obsolete is one of the chief factors which makes it difficult to estimate the extent of the present building shortage. Sufficient building units may be extant but they may not be of the kind and quality which are now demanded.

Influence of Population Shifts

From the point of view of building demand, shifting of population is almost as significant as actual increase in population. There is little reason to believe that such population shifts will be any the less important in the next few years than they were before the war.

The movement from the rural districts to the cities is a continuing movement, the influence of which cannot be overlooked. It is not improbable that the return of agricultural prosperity will slow up to some extent the rate of rural exodus which has characterized the last four or five years, but it is futile to expect any perceptible return flow of population from the cities to the farms and I see no reason why the city-ward drift will not continue at probably fully the pre-war rate.

Similar shifts of population are expected by many to be caused by the process of decentralization which the development of hydro-electric power and the increasing congestion of our metropolitan cities may bring. These may or may not materialize. However, there can be no doubt about one important shift which is now in progress, namely, the hegira to Florida. With the astounding gains in building activity already recorded by Florida cities you are all familiar. However, because of the fantastic extremes to which land values have been pushed, we are all apt to discount the permanent influence of Florida upon biulding demand. It may therefore interest you to hear the following extract from a recent extensive report upon the Florida boom by the Standard Statistics Service:

"In the opinion of this Service, the building program for the State of Florida will be further augmented over the next several years. Notwithstanding the heavy expenditures of the past two years, facilities of every type are inadequate not only for the population now in the state the year round, but more particularly to take care of the heavy seasonal increase to be expected each Winter.

"Moreover, land values in many centers have now advanced so high that the present owners can no longer afford to hold on to properties from which there is no rental return, merely in the hopes of further speculative profits from rising land values. The stage has now been reached when remunerative buildings must be constructed, and upon this stage of its building program Florida is only starting.

"Whatever may be the prospect for the building industry for the United States as a whole, the Florida prospect is quite clearly against any sharp abatement during the next several years. Thousands of people with available funds have purchased residential sites and now find themselves unable to begin construction, owing to the shortage of labor and materials. As the first flush of the heavy office building, commercial building, public utility, highway and development project construction passes, these individuals will be able to build and by so doing will maintain the Florida building program at high levels."

(To be continued.)

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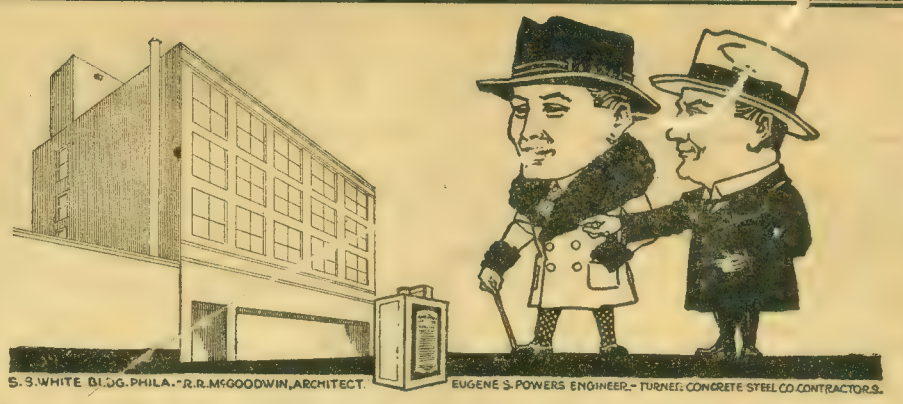
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Builders' Guide

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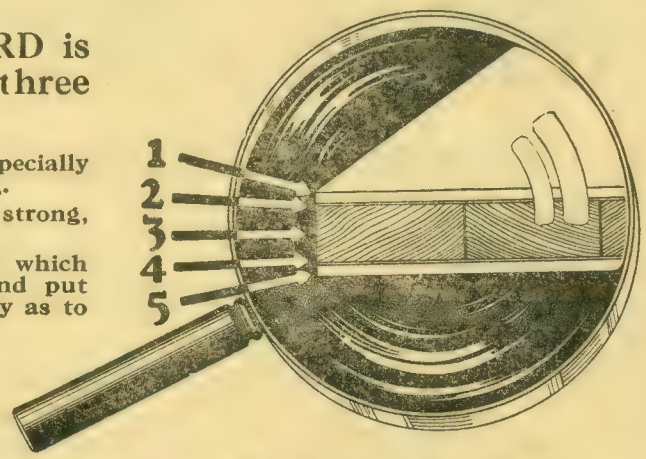
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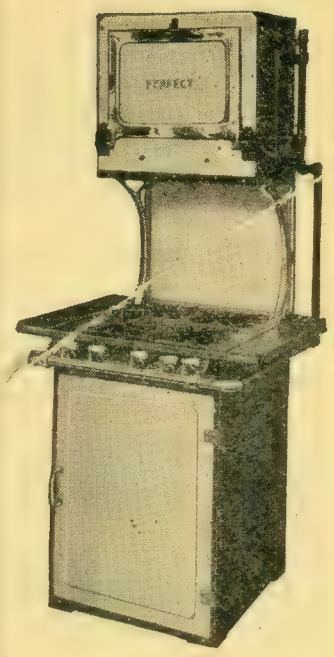
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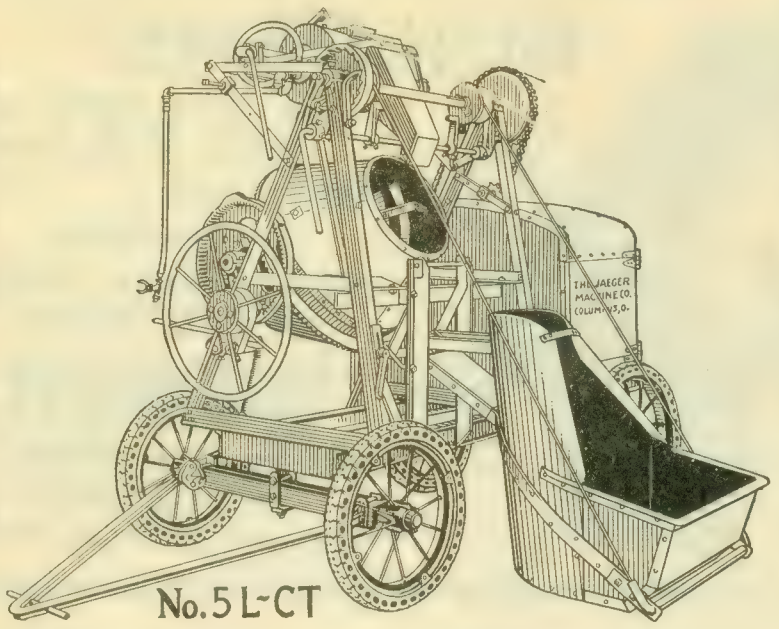
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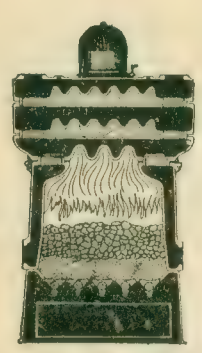
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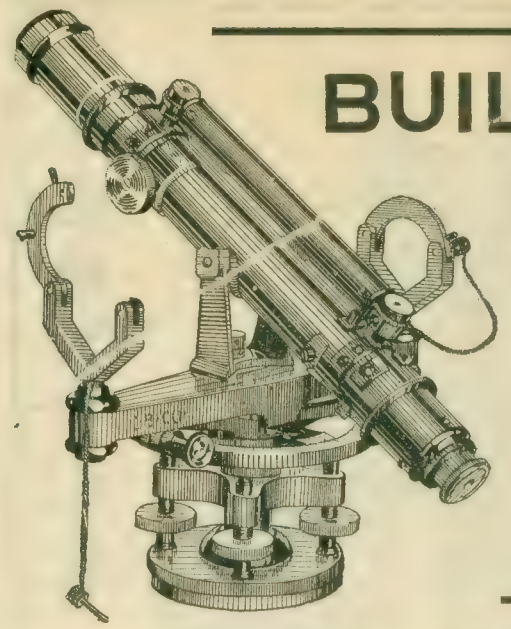
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 2

PHILADELPHIA
January 13, 1926

BUILDERS' GUIDE

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As The Editor Sees It

THE estimated cost of all buildings, alterations, additions, repairs, and miscellaneous work for which permits were issued by the Philadelphia Bureau of Building Inspection in 1925 was $170,913,530, according to detailed reports printed on other pages of this issue of the GUIDE, an increase of $29,-176,070 over 1924, which before 1925 was the greatest record of any year.

Dwelling construction showed an increase in 1925 of 2937 houses of all types over 1924 at an increase in estimated cost of $12,434,240. Philadelphia was 18,556 houses short of requirements at the beginning of 1925. This year the increase of 5,804 over the average number 7,150, of houses built annually, heretofore has reduced the house shortage in Philadelphia to 5,602 houses. 12,954 houses of all types were built in 1925 and only 10,017 were built in 1924. As is generally the case residential building led all classes of building in 1925 with $70,207.-465, compared to $57.773,225 expended in 1924 for residences.

Next to residential construction, stores showed the greatest value, as $20,016.-865 was the cost of buildings of this class. In 1924 only $2.796,050 was expended in stores. The enormous increase in this class of construction in 1925 is due to the new twelve story department store building to be erected at 9th and Chestnut Streets, for Gimbel Brothers. The store will cost $18,000,000, according to the permit, which is the largest single permit ever issued by the Bureau of Building Inspection. Tenement Houses came next in volume with 95 new structures costing $15,522,000, an increase in number of 45 at an increased value of $6,639,000. Office Buildings were next in order with 48 costing $11,073,100, an increase of 10 over 1924 at an increased value of $931,900. Schools, next in volume, 18 at a cost of $9,938,070, an increase of only two but at a large increase in cost, 16 having a value of $4,394,435 having been built in 1924. Garages again showed a big increase and were next in volume of cost, although a smaller number were built in 1925 than in 1924, but the cost greater, 2,778 garages costing $6.951,430 were built in 1924 and only 2,381 costing however $8.191,025 were built in 1925. Manufactories showed a decline in 1925 in value, but an increase in number, 59 costing $5,873,735 were built in 1924 and 70 costing only $3.962,-720 were started in 1925. Churches showed a marked decline in number and value, 27 costing $2,620,850 built in 1924 compared to 11 costing $915,150.

March exceeded all months in the number of operations started with 4,164, although the banner month in point of value of new work was July with $30,-717,760 the greatest month the city ever experienced in volume of construction started. This was due again to the Gimbel store permit of $18,000,000.

Estimated cost for each month, 1925:

Month	Permits	Operations	Estimated Cost
Jan.	614	964	$6,567,755
Feb.	957	1,929	10,320,835
Mar	1,718	4,164	22,424,530
Apr.	1,461	2,848	21,110,645
May	1,369	2,423	14,434,300
June	1,310	2,304	11,156,450
July	1,413	2,357	30,757,760
Aug.	1,159	1,768	9,946,680
Sept.	1,189	1,736	9,392,390
Oct.	1,174	2,204	12,850,990
Nov.	891	1,442	13,303,765
Dec.	699	1,175	8,485,930
Total	13,951	25,307	170,913,530

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The following table shows the total for each year back to and including 1909:

Year	Operations	Estimated Cost
1909	17,294	$ 42,881,370
1910	16,383	37,866,565
1911	16,215	40,030,985
1912	14,907	37,173,635
1913	14,813	38,763,850
1914	15,709	35,419,605
1915	17,712	39,444,125
1916	15,613	49,896,570
1917	8,977	34,016,408
1918	5,950	15,452,670
1919	14,509	65,088,750
1920	12,512	55,305,400
1921	14,654	42,790,780
1922	22,588	114,881,040
1923	21,546	122,650,935
1924	24,234	141,737,460
1925	25,307	170,913,530

More money was spent on garage construction in 1925 than in any year on record although the number of garages is not so large as in the two preceding years.

Record of Eleven Years

The number of garages, with estimated cost, for the last eleven years follows:

Year	No. of Garages	Cost
1915	595	$ 723,260
1916	878	1,307,340
1917	833	1,296,310
1918	480	833,320
1919	1,322	2,726,540
1920	1,153	2,502,290
1921	1,569	3,505,695
1922	1,909	5,072,765
1923	2,522	5,415,885
1924	2,778	6,951,430
1925	2,381	8,191,025

The most active month in garage construction was April with 323 garages started, although March was almost as active in number started with 315.

The total number of garages erected in 1925 according to permits issued by the Bureau of Building Inspection follows:

Month	No. of Garages	Cost
January	68	$ 320,290
February	137	591,195
March	315	854,170
April	323	918,680
May	264	897,590
June	213	637,020
July	219	817,315
August	161	525,305
September	210	715,310
October	186	392,985
November	145	485,405
December	140	1,035,760
	2,381	$8,191,025

The Forty-second Ward with 2964 dwellings erected in 1925 led all districts. The Thirty-fifth Ward with 1742 dwellings and the Fortieth Ward with 1720 residences followed in the greatest number. These three wards showed substantial increases over 1924. Material gains were made in the 21st, 22nd, 23rd, 36th, 38th, 39th, 41st and 45th wards.

Contemplated new work for 1926 shows a tendency toward public works, industrial buildings and smaller types of residential buildings. Some new office buildings are being planned. These and a large programme of school construction assure continued activity for some time for the Building Trades although it is not supposed that 1926 will exceed 1925.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soil with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

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Advance Construction News

CONTEMPLATED CONSTRUCTION, ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Sales and Service Building, Broad and Washington avenue, Philadelphia. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owners, Duff Nash Motor Co., 1113 South Broad street, Philadelphia. Brick, cut cast stone, cut stone, steel, 4 stories and basement, 100x83 feet, slag roof, cement floors, hollow tile, elevators, shoring, architectural terra cotta, ornamental iron work, floor hardener, fire doors, rolled steel sash, tile and marble work, metal lath, electric light, steam heat, dumb waiter, monolithic floor finish, area gratings. Architect taking bids due January 19th.

New Balcony (alts. and add.), Twelfth and Chestnut streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Commonwealth Title & Trust Co., Twelfth and Chestnut streets, Philadelphia. Gypsum slab, structural steel, iron work, revolving doors, marble, carpentry and mill work, painting, glazing, plastering. Irwin & Leighton, 126 North Twelfth street, taking sub-bids due as soon as possible.

Apartment House, Queen Lane, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owner, Chester W.. Rudisall, care of architect. Brick, architectural terra cotta, cut stone, steel, 3 stories and basement, tile and built-up roof, 221x82 feet, oak and cement floors, electric light, metal lath, tile and marble work, rolled steel sash and skylights, tin clad, kalamein and hollow metal iron doors, bond, metal bulks, kitchen units, ornamental iron work, cast stone, area gratings, metal corner beads, painting and glazing. Contract awarded Nelson-Pedley Const. Co., 1510 Chestnut street, Philadelphia, who is taking sub-bids on revised plans and specifications due January 18th.

Furniture Show Rooms, 636-38 South street and Kater street, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owner, care of architect. Steel, stone, brick, 4 stories and basement, 36x115 feet, slag roof, maple floors, elevators, safety treads, metal ceilings, dampproofing, terra cotta, cast stone, ornamental iron work, metal bulks, bond, store fixtures, hollow metal doors, hollow metal skylights, rolled steel sash, tile and marble work, metal lath, electric light, steam heat. Plans in progress.

Lying-in Hospital and Nurses' Home, Eighth and Spruce streets, Philadelphia. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, Pennsylvania Hospital, on premises. Brick, reinforced concrete steel, steam heat, electric light, copper skylights, tin clad doors, floor hardener, ornamental iron work, slag roof, cement floors, elevators, dumb waiters and equipment, plumbing, refrigeration equipment, ventilating system. Working plans nearly completed.

Store and Apartment (alts. and add.), Southwest Corner Twentieth and Ontario streets, Philadelphia. Architecc, E. L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, B. Rosenberg, Penfield Building, Philadelphia. Brick, 4 stories, 24x119 feet (new first floor add.), steam heat, electric light, tile and marble work, slag roof, hardwood floors, oil burning equipment, copper bulks, plate glass. Plans in progress.

Residence Operation, Lotus road and Sixty-sixth street, Philadelhia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, McWilliams & Meloney, Sixty-fourth and Morris Park, Philadelphia. Brick, 2 stories, 20x32 feet, central heat, electric light, tile and marble work, slag and slate roof, hardwood floors, garage in basement. Plans in progress.

Residences (60), Store and Residences (4), Second and Sparks streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 15x38 feet, hot water heat, electric light, tile and marble work, slag and tin roof, hardwood floors, garages in basement. Plans in progress.

Apartment House, Oak Lane, Pa. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Limestone, brick, steel, 4 stories, main building, 275x30 feet, 3 buildings, 70x50 feet, gypsum roof, hardwood floors, steam or vapor heat, electric light, tile and marble work, copper work, all steel sash, 6 fire towers. Sketches being drawn.

Residences (28), Vernon road, East of Boyer street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owners, Arnold Realty Co., City Center Building, Philadelphia. Brick, granite face block, 2 stories, 16x54 feet, slag, tile and slate roof, hardwood floors, hot water heat, electric light, metal lath, tile work, garages in basements. Owners taking sub-bids.

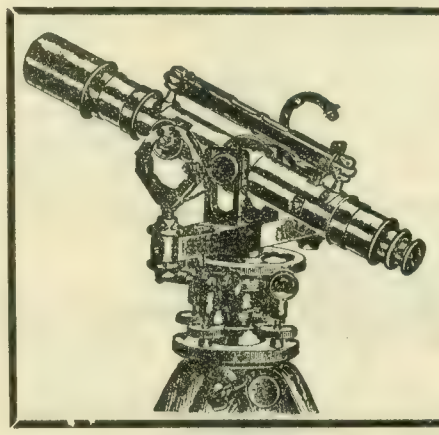
Building, Ruffner and Reading Railroad, Philadelphia. Owners, Aetna Foundry Co., Twenty-second and Allegheny avenue, Philadelphia. New concrete floors, installing of machinery for cleaning castings. Owners will take bids.

Theatre, South side Chester, West of Fifty-fourth street, Philadelphia. Architect, private plans. Owners, Babis & Bender, Chestnut street above Sixty-second street, Philadelphia. Brick, steel, concrete, 1 story, 61x160 feet, gypsum roof, cement floors, vapor heat, electric light. Owners taking sub-bids due January 15th.

Store and Residence alts. and add.), 2219 Addison Park avenue, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, Babis & Bender, Chestnut street above Sixty-second street, Philadelphia. General alterations and additions. Owners taking sub-bids.

Manufacturing Building, Aramingo avenue, Tulip and Sanger streets, Philadelphia. Architects, The Ballinger Co., Twelfth and

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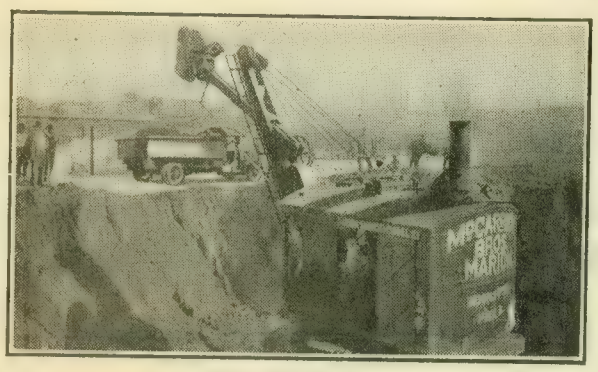
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Philadelphia

Chestnut streets, Philadelphia. Owner, John Warren Watson, care of architect. Brick, reinforced concrete, cut stone, steel, 1 story, 784x124 feet (plumbing, heating, electric sprinklers reserved), asphalt shingle and slag roof, cement floors, metal lath, marble work, rolled steel sash, sheet metal skylights, fire and kalamein doors, iron stairs, ornamental iron work, rolled steel shutters, area gratings, steel partitions. Architects taking bids due January 19th before 11 A. M.

Store, Office and Apartment, 5815 Germantown avenue, Philadelphia. Architects, T. B. Lippincott and C. H. Schaeffer, 11 South Sixteenth street, Philadelphia. Owner, Max Lewis, care of architect. Brick, cut stone, steel, 2 stories and basement, 24x74x38 feet, slag roof, cement and oak floors, painting and glazing, plumbing, metal ceilings, hot water heat, electric light, metal lath, tile, marble work, metal bulks, ornamental iron work, treadlite floors, incinerator, linoleum floors, kitchen and medicine cabinets. Architects taking bids due January 14th at noon.

Store Building (alts.), 1020-22-24 Market street, Philadelphia. Architect, private plans. Owner, F. W. Woolworth, Wilkes-Barre, Pa. Carpentry and mill work, plate glass, painting and glazing, iron work, plastering, elevator, copper bars, tile and marble work, rolled steel sash. Owner taking bids due as soon as possible.

Apartment House, 3416-18 Haverford avenue, Philadelphia. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owners, Brown Realty Co., 23 South Sixteenth street, Philadelphia. Brick, steel, 4 stories, 1 story, red tapstry brick, 3 stories, stucco, vapor vacuum heat, electric light, fire door and tower, kalamein door, ornamental iron work, slag roof, hardwood and composition tile floors, plumbing, indoor equipment, kitchen equipment, serveador, oil burner, terra cotta. Owners taking bids.

Alterations and Additions, Southwest Corner Broad and Wharton streets, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Southern Title & Trust Co., on premises. Linoleum floors, electric work, ulumbing, hardware, painting and glazing, marble, tile and terrazzo work, plastering, metal lath, cabinet work, carpentry and mill work, steel and iron work, brick work, cut stone, concrete and cement work, built-up slag roof, area gratings. Architect taking bids due January 15th.

Residences (2) (alts. and add.), 2131 Lombard and Read on Waverly street. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, Rev. Charles Blackwell, 2308 Lombard street, Philadelphia. Brick, 3 stories, 12x15 feet, slag roof, hardwood floors, hot water heat, electric light, (2) tile baths, plastering, carpentry, new partitions, stair work, rear residence, garage on first floor, apartments on second, steel work, cement work. Owner is taking bids.

Swimming Pool, Francisville Playground, Philadelphia. Architect, Andrew J. Sauer, Schaff Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Low bidders: Conneen Const. Co., 2315 Walnut street, Philadelphia, $38,900; J. E. Houseworth, 2512 North Twenty-seventh street, Philadelphia, $40,297; plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, $2,796; electric, Walker & Kepler, 531 Chestnut street, Philadelphia, $1,292.

Filling in City-owned Property, East of Broad street and South of Pattison avenue, Philadelphia. Owners, City of Philadelphia, Department of City Property, 216 City Hall. Low bidder: Stange Const. Co., 2031 South Broad street, Philadelphia, $50,000.

Miscellaneous Work, Philadelphia. Owners, Department of Wharves, Docks and Ferries, Pier No. 4, South Wharves, Philadelphia. Owners taking bids due January 15th at noon for emergency work of repairing the floating plant. Certified check 5 per cent. of amount of bid.

Bank and Office Building, Southeast Corner Seventeenth and Chestnut streets, Philadelphia. Architects, Rankin, Kellogg & Crane, 1805 Walnut street, Philadelphia. Owners, Provident Trust Co., J. B. Townsend, 409 Chestnut street, Philadelphia. Steel, limestone or granite. Details undecided. Architects selected.

Store Building, Germantown and Chelten avenues, Philadelphia. Architect, not yet selected. Owner, Edward A. Schmidt, 127 Edwards street, Philadelphia. Work contemplated.

Buildings, 1109-13 Market street, Philadelphia. Architect, Otto G. Herold, Twelfth and Market streets, Philadelphia. General alterations. Work contemplated.

Office Building (add.), I and Ontario streets, Philadelphia. Architect, Edward A. Yeo, 225 South Sydenham street, Philadelphia. Owners, Model Mills Co., Inc., S. R. Boggs, president, on premises. Brick, 2 stories. Preliminary plans in progress.

South Wing (Administration Building) (alts.), Forty-ninth and Market streets, Philadelphia. Architect, Arthur Brockie, 264 South Fifteenth street, Philadelphia. Owners, Pennsylvania Hospital, Forty-ninth and Mar-

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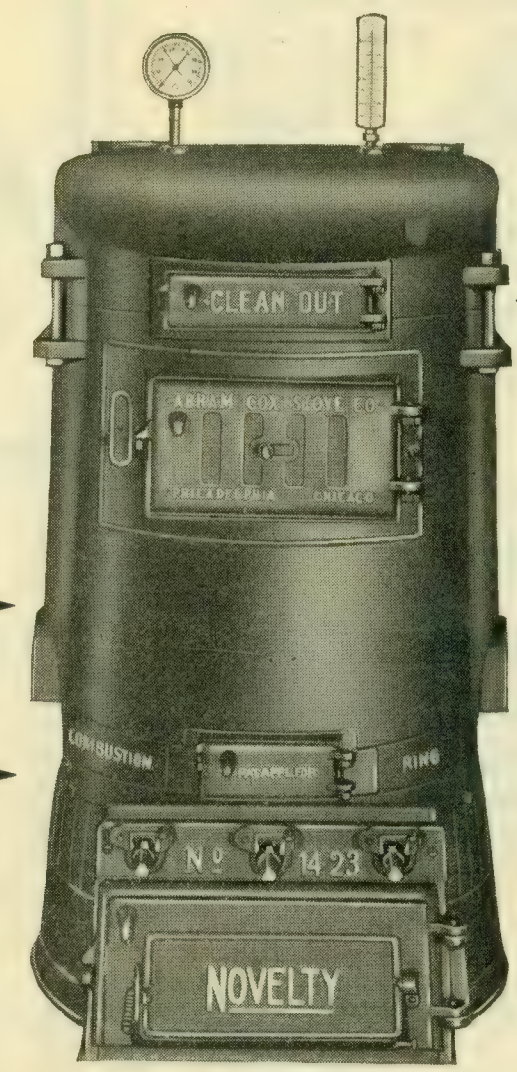
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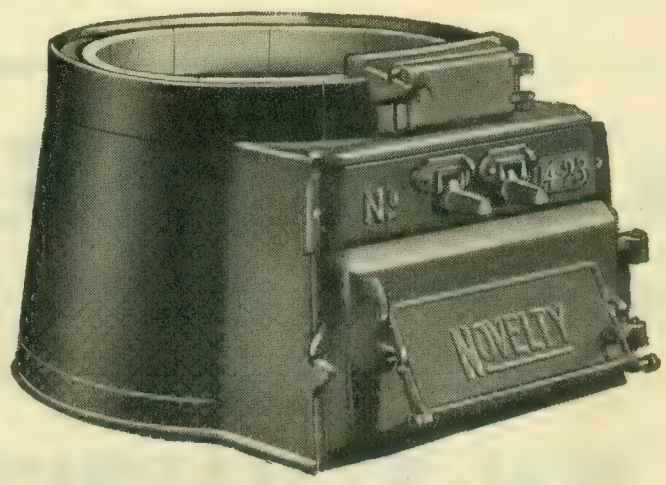
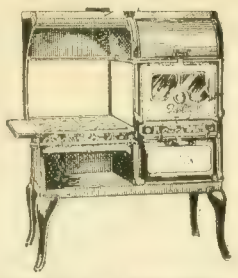


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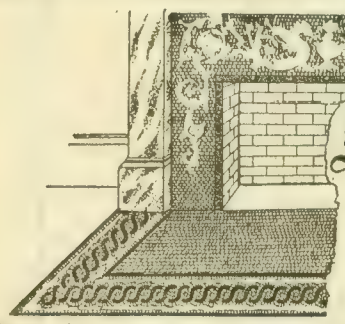
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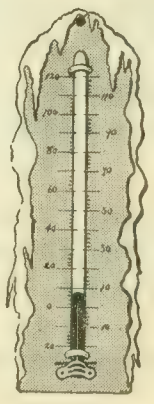
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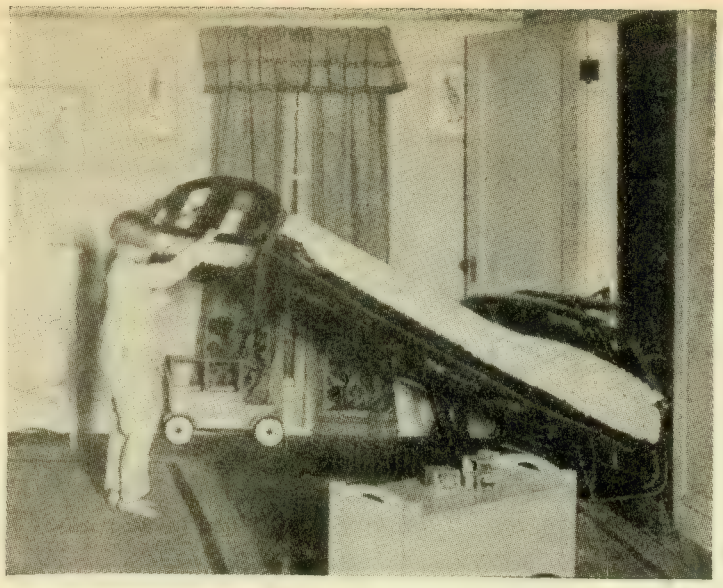
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ket streets, Philadelphia. Plumbing, tile and marble work, terrazzo work, cement work, hardware, carpentry and mill work, painting and glazing, membrane wateproofing. Architect will take revised bids in about 3 weeks.

Auto Show Room and Office, 2435-37 Lancaster avenue, Philadelphia. Architect, L. J. Tunis, 1600 Arch street, Philadelphia. Owner, A. E. .Hickey, Abbott Building, Philadelphia. Brick, steel, limestone, 2 stories and basement, 25x50 feet, slag roof, concrete and reinforced concrete floors, steam heat, oil burner, electric light, cement work, ornamental tile work, iron work. Architect taking subbids for owner.

Garage add.), 246 East Woodlawn avenue, Philadelphia, $8,000. Architect, private plans. Owner, A. C. Baumann, 7101 Theodore street, Philadelphia. Brick, 1 story add., 50x130 feet, slag roof, cement floors, electric light. Permit granted.

Garage (add. and alts.), 2129 Cambria street, Philadelphia, $7,000. Architect, private plans. Owners, C. Salvato & Co., 2910 North Van Pelt street, Philadelphia. Brick, second story add., 17 feet 8 inches x 70 feet 6 inches, general alterations. Permit granted.

Laundry (alts.), Naudain street, West of Eighteenth street, Philadelphia, $6,000. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. General alterations. Permit granted.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineers, 216 City Hall. Owners taking bids due January 20th at noon. Main sewer in Rowland avenue, sewage disposal project discharge pipes, Southwest Sewage Pumping Station; underground structures, Wheatsheaf lane from Delaware avenue to Outfall Pier. Store water culvert at Eightieth avenue and Penrose street, Philadelphia. South Philadelphia Improvement, sanitary drainage in area south of Packer avenue and west of Broad street, Philadelphia. Certified check 5 per cent. of amount of bid. Inquire Room 416.

Delivery of Spruce to Philadelphia Navy Yard. Owners, **Bureau of Supplies** and Accounts, Washington, D. C. Owners taking bids due January 19th, 10 A. M., for delivery of spruce to the Naval Aircraft Factory, Philadelphia Navy Yard.

New School of Practice, Spring Garden, West of Thirteenth street, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Low bidders: William Langhorne, 10 South Eighteenth street, Philadelphia, $465,787; J. McShain, Inc., 1713 Sansom street, Philadelphia, $483,847; electric, Walker-Kepler, 531 Chestnut street, Philadelphia, $15,993; plumbing, Philadelphia Piping & Equipment Co., 1605 Rockland street, $17,170; heating, Philadelhia Piping & Equipment Co., 1605 Rockland street, $27,500; ventilating, Mellon & Co., 4415 Ludlow street, Philadelphia, $1,985. Specification 475, heating, S. Faith, 2427 Pennsylvania avenue, $778; electric, Fifty-third and Media School, Walker-Kepler Co., 531 Chestnut street, Philadelphia, $65,151; equipment, Fifty-ninth and Lancaster School, Mitchell Brothers, 2125 Race street, Philadelphia, $94,584; equipment, Eighteenth and Luzerne Street School, Mitchell Brothers, 2125 Race street, Philadelphia, $94,584. Specification 469, South Philadelphia Girls' High, Lam Building Co., 1001 Wood street, Philadelphia, $2,490. Specification 472, Northeast High School, new balcony, Richmond & Kemp, 1840 Germantown avenue, Philadelphia, $623.

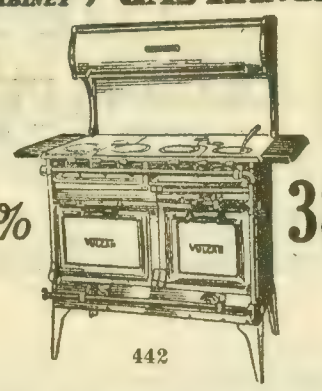
Residences (2), 5746-48 Sansom street, Philadelphia, $6,000 each. Architect, I. W. Levin, 1001 Chestnut street, Philadelphia. Owner, B. Shestack, 6158 Locust street, Philadelphia. Brick, 2 stories, 16x27 feet, 11x16 feet and 16x34 feet, 6 inches, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (93), Spencer, Mascher, Nedro and Champlost avenue, $459,600. Architect, private plans. Owners, James F. Nolen & Sons, 64 Church lane, Philadelphia. Brick, 2 stories, various sizes, hardwood and pine floors, hot water heat, electric light. Permit granted.

Storage Building, West side Shelbourne street, North of St. Vincent street, $8,000. Architect, private plans. Owners, Dewees Brothers, Fifth and Fisher's road, Philadelphia. Brick, 1 story, 76x42 feet 4 inches, slag roof, electric lighting. Permit granted.

Residences (55), Loretta, Frontenac and Anchor streets, Philadelphia, $218,400. Architect, private plans. Owners, Marshall Const. Co., Sixty-fifth and Lebanon avenue, Philadel-

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phia. Brick, 2 stories, various sizes, hot water heat, electric light, hardwood and pine floors. Permit granted.

Garages and Stores, West side Third street, North of Brown street, $50,000. Owners, Joseph Seltzer, 1733 North Seventh street, and H. R. Abrams, 1542 North Franklin street, Philadelphia. Brick and steel, 1 story, 100 feet 3 inches x 218 feet, slag roof, cement work, electric lighting. Permit granted.

Store and Office, 3635-37 Lancaster avenue, Philadelphia, $8,000. Architect, private plans. Owner, Arthur E. Hickey, Abbott Building, Philadelphia. Brick, 2 stories, 26x48 feet, 26x10 feet, slag roof, pine floors, electric light. Permit granted.

Warehouse, East side Thirty-fourth street, South of Allegheny avenue, $6,000. Architect, private plans. Owners, Ockman & Haberman, 2703 West Gordon street, Philadelphia. Concrete block, 1 story, 55x75 feet. Permit granted.

Store and Office (add. and alts.), 1480 North Fifty-second street, $4,000. Architect, private plans. Owner, Harry S. Miller, 1982 North Fifty-second street, Philadelphia. Brick, 1 story add., 44x15 feet, rear add., 21x24 feet, general alterations. Permit granted.

Pennsylvania Construction News

Garage, Bethlehem, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, John Adams, 1502 East Second street, Bethlehem, Pa. Brick, 1 story, 90x40 feet, slag roof, concrete floors, steam heat, electric light. Owner will build.

Garage, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, J. Feinberg, 201 Lehigh avenue, Allentown, Pa. Brick, steel, fireproof, 2 stories, 254x150 feet, slag roof, concrete floors, steam heat, electric light, steel sash. Owner will build.

Apartment Building, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, J. Feinberg, 201 Lehigh avenue, Allentown, Pa. Brick, 4 stories, 55x65 feet, slag roof, pine floors, steam heat, electric light. Owner will build.

Residence and Garage, Beverly Hills, Delaware County, Pa. Owner, C. A. Uting, 7112 Sansom street, Upper Darby, Pa. Stone, frame, 2½ stories, 34x24 feet, hot water heat, electric light, oil burning, slate and shingle roof, hardwood floors. Owner will build.

Residence (add. and alts.), Scranton, Pa. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owner, Mrs. Edward Morgan, care of architect. Frame, 2½ stories, 24x22 feet, shingle roof, pine floors, heating extension, electric light, tile work, vault and vault doors, electric refrigeration, incinerator. Architect taking bids due January 15th.

Residence and Garage, Fairfax road, Drexel Park, Pa. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owner, Ralph Wheeler, City Center Building, Philadelphia. Brick. Architect taking bids due January 20th.

Superintendent's Cottage, Laurelton, Pa. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Laurelton State Village for Feeble Minded, Laurelton, Pa. Low bidders: S. B. Kessler, Northumberland, Pa., $27,349; H. A. Moore Co., Milton, Pa., $36,787; plumbing, B. O. Daubert, Lewisburg, Pa., $3,368; plumbing and heating (joint bid) B. O. Daubert, Lewisburg, $4,800; electric, Bly Brothers, Milton, Pa., $968.

Church, Catasauqua, Pa. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Mary's Roman Catholic Parish, Rev. J. A. Seimetz, Catasauqua, Pa. Stone, cut stone, concrete, limestone, granite, 1 story and basement, 58x107 feet, black slate roof, pine and cement floors, vapor heat, electric light, tile and marble work, solid steel sash, safety treads, plumbing, metal ceilings, waterproofing and dampproofing, bond, iron stairs, ornamental iron work, area gratings, leaded glass and storm glass, ornamental plaster. Architect taking revised bids due January 20th at noon.

Apartment House, Lansdowne, Delaware County, Pa. Architects, Myers & Shaw, Bankers' Trust Building, Philadelphia. Owner, name withheld. Brick, steel, 4 stories, 106x130 feet, slag roof, cement, composition and oak floors, hot water heat, electric light, tile work, elevators, oil burners, incinerator. Architects taking bids due January 16th.

Schools (4), Drexel Hill, Highland Park, Bywood, Stonehurst, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, School Board of Upper Darby Township, Upper Darby, Pa. Stone and brick, 2 stories. Plans about completed. Will be ready for bids in about two weeks.

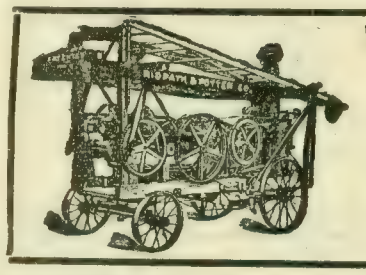
Club House, Chester, Pa. Architect, C. M. Bogia, Glenside, Pa. Owners, Pennsylvania Military College, Chester, Pa. Stone, cut stone, brick, 1 story, 36x21 feet, shingle roof,

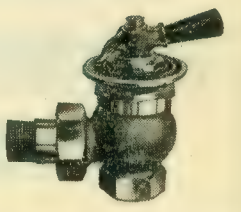
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CEMENT
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LIME SLAG
PLASTERING MATERIALS
TERRA COTTA PIPE

oak and pine floors, plumbing, steam heat, metal lath, ornamental iron work. Owners taking bids due as soon as possible.

New Jersey Construction News

Store Building (alts.), Millville, N. J. Architect, private plans. Owners, F. W. Woolworth Co., Charles M. Wilson, Superintendent of Construction, Miners' Bank Building, Wilkes-Barre, Pa. New front, interior alterations, steel work, copper work, metal ceilings, steam heat, electric work, plate glass. Plans in progress. Owners will build.

Spanish Court, Merchantville, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owner, George Krewson, Merchantville, N. J. Miscellaneous buildings, plot 300x180 feet. Owner will take sub-bids.

Rectory, Collingswood, N. J. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, St. John's R. C. Church, Rev. J. O'Farrel, Collingswood, N. J. Stone, 2 stories, hollow tile and plaster, attic, 32x35 feet, black slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect taking bids, due January 14th at 10 A. M.

Locker Building and Swimming Pool, Pine Point Park, Camden, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, City of Camden, Department of Parks and Public Property, City Hall, Camden, N. J. Concrete block and stucco, one story, 29x64 feet, swimming pool, concrete, 50x150 feet, asbestos shingle roof, concrete floors. Architects taking bids.

Hotel (add. and alts.), 2905 Pacific avenue, Atlantic City, N. J. Architect, Benj. Brown, Guarantee Trust Building, Atlantic City, N. J. Owner's name withheld. General interior alterations, maple floors, hot water heat, electric light, tile work. Architect ready for bids, due January 15th.

Completion of Dining Hall, Home for Feeble Minded, Vineland, N. J. Architect, Alan B. Mills, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Hollow tile, brick, steel, one story, 50x146 feet, slate roof, steam heat, electric light, metal lath, terrazzo work rolled steel skylights, water and dampproofing. Architect taking bids, due January 18th.

Store, Arkansas avenue and Boardwalk, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Associated Realty Co., Mr. Hill, on premises. Structural steel, concrete, brick, hollow tile, one story and basement, 75x85 feet, slag roof, hot water heat, electric light, tile and terrazzo work. Architect taking bids, due January 14th.

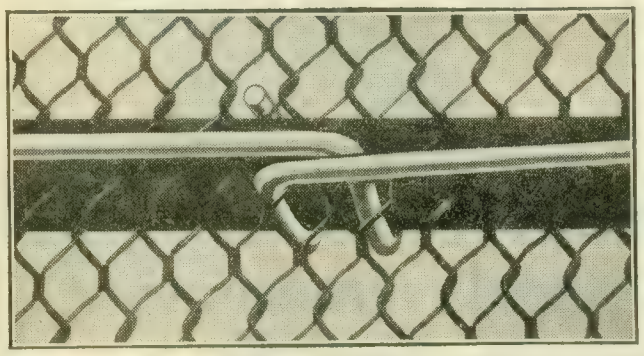
Store, Office and Apartment, Brigantine Beach, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owners, H. G. Harris Co., care of architect. Hol low tile, stucco, two stories, 60x48 feet, slag and tile roof, hardwood floors, hot water heat, electric light, metal lath, tile work, ornamental iron. Architect taking bids, due January 14th.

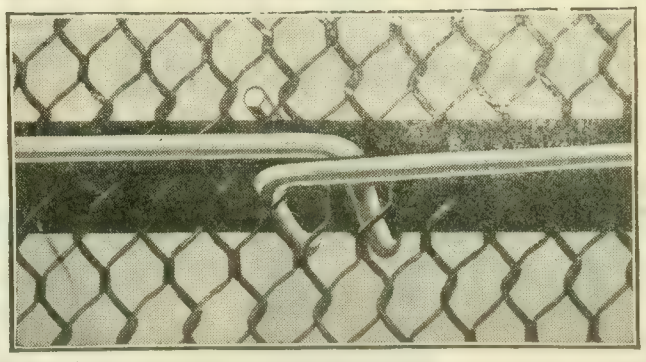
Public School (add. and alts.), Lawnside, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Board of Education of Centre Township, Camden, N. J. Lowest bidders: Hugh B. Miller, Edgewater Park, N. J., $15,998; Bennett-McLaughlin Co., 3260 Ludlow street, Philadelphia $20,778. Heatin gand ventilating, Harry Knecht, West Collingswood, $2,224. Electric, Charles Wright, Camden, N. J., $405. Contracts will be awarded to low bidders.

Club House, Airport Grounds, Atlantic City, N. J. Architects, Carrere & Hastings, 52 Vanderbilt avenue, New York. Owners, Department of Streets and Public Improvements, H. T. Headley, Atlantic City, N. J. Lowest bidders: Samuel L. Litzie, 2235 Arctic avenue, Atlantic City, N. J., $64,451; Philip G. Hannum, Georgia avenue and Thorofare, Atlantic City, N. J., $64,886; Lam Building Co., Humphrey Building, Atlantic City, N. J., $69,260.

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Interlocking Patented Clips—So Designed that the Lath can not be Separated from Furring Bar
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BELL PHONE, CAMDEN 3210
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SURETY BONDS

PHILADELPHIA AS A BUILDING CENTER

A Classified and Tabulated Statistical Review of Structural Activities During 1925

Number of New Buildings Erected from January 1st to December 31st, 1925

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Operations.	Estimated Cost.
Amusement, Places of	..	..	1	1	..	..	..	1	..	1	..	..	4	$250,000
Banks	..	..	2	1	1	2	..	1	1	1	..	1	10	1,050,500
Charitable Institutions	..	..	..	..	..	1	..	..	..	1	..	..	2	542,000
Churches	..	..	..	..	5	..	1	1	1	..	1	2	11	915,150
Club Houses	..	..	..	..	2	..	..	..	2	..	1	..	5	242,000
Depots	1	..	..	..	..	..	..	..	..	..	..	..	1	70,000
Dwellings, one-story	..	..	4	2	6	..	2	7	..	3	2	..	26	87,500
" two-story	391	1045	2672	1473	1103	1046	1072	671	605	1112	551	440	12,181	63,131,485
" three-story	7	22	57	80	42	46	41	24	28	33	18	19	417	5,278,930
" frame	10	21	49	36	44	18	40	19	19	31	28	15	330	1,709,550
Dormitory	..	..	..	..	..	..	..	..	..	..	1	..	1	200,000
Engine and Boiler Houses	..	..	..	..	..	..	..	..	1	1	1	..	3	10,300
Garages	68	137	315	323	264	213	219	161	210	186	145	140	2,381	8,191,025
Grain Elevator	..	1	..	..	..	..	..	..	..	..	..	..	1	175,000
Halls	..	1	..	3	..	..	..	1	2	..	2	..	9	1,571,000
Hospitals	..	..	..	..	2	..	..	..	3	..	1	..	6	1,746,000
Laboratory	..	..	..	..	..	..	1	..	..	..	..	..	1	85,000
Manufactories	2	5	4	6	11	6	5	4	12	4	8	3	70	3,962,720
Municipal Buildings	..	..	..	..	..	..	..	1	..	..	..	1	2	194,000
Miscellaneous Buildings	9	7	27	19	22	16	23	10	4	6	5	9	157	414,805
Office Buildings	2	1	5	4	3	4	4	6	1	6	9	3	48	11,073,100
Parish Buildings	..	..	..	1	..	..	..	..	1	..	..	..	2	52,000
Power Houses	..	..	..	..	..	..	..	2	..	..	..	..	2	50,000
Rooming Houses	6	..	..	..	..	..	..	..	..	..	1	..	7	136,000
Schools	2	..	..	2	1	3	1	2	2	2	1	2	18	9,938,070
Stables	1	1	..	..	1	6	..	1	..	..	..	..	10	74,250
Stores	3	9	9	16	2	11	10	10	9	9	9	5	102	20,016,865
Stadium	..	..	..	..	..	..	1	..	..	..	..	..	1	1,849,800
Sesqui-Centennial Buildings	..	..	..	..	..	..	..	..	..	1	1	..	2	1,640,200
Recreation Buildings	..	..	3	..	..	..	..	..	..	..	..	..	3	26,200
Tenement Houses	11	8	14	8	6	5	8	6	4	6	9	10	95	15,522,000
Warehouses	4	7	6	10	..	4	3	6	9	9	7	9	74	2,584,665
Workshops	3	6	18	8	7	3	15	9	6	4	2	3	84	533,615
Total New Buildings	520	1271	3186	1993	1522	1384	1446	943	920	1416	803	662	16,066	$153,323,730
Additions	109	215	321	283	327	356	341	266	350	290	201	140	3,199	10,478,320
Alterations and Repairs	242	345	480	422	397	390	391	380	330	351	261	248	4,237	6,149,625
Grand Total													23,502	$169,951,675
Fire Escapes													112	83,590
Theatres													52	42,730
Miscellaneous Work													1,297	729,725
Signs													344	105,810
Total work of all kinds													25,307	$170,913,530

RECORD OF RESIDENCE CONSTRUCTION IN VARIOUS WARDS OF PHILADELPHIA FOR EVERY MONTH DURING THE YEAR 1925

Showing the Number of Houses for Which Permits Were Issued by the Bureau of Building Inspection

TWO-STORY DWELLINGS—Including Two-story Stores and Dwellings.

Wards	1	3	8	11	14	15	18	20	21	22	23	24	25	26	27	28	30	32	33	34	35	36	38	39	40	41	42	43	44	45	46	48	Totals
Jan.	..	..	..	..	..	..	..	..	..	135	9	..	..	53	..	..	..	..	..	..	34	..	70	..	..	5	29	11	..	..	..	45	391
Feb.	..	..	..	..	1	..	..	..	8	46	144	..	2	..	..	..	..	..	..	7	185	..	1	8	135	80	418	4	..	6	..	..	1,045
March	..	1	1	..	..	..	4	..	55	258	224	..	3	..	1	1	..	..	..	193	141	..	97	135	430	353	740	..	3	4	28	..	2,672
April	..	..	..	..	1	..	..	..	51	133	256	..	..	..	..	..	1	..	..	50	191	..	85	6	175	62	395	5	..	11	..	51	1,473
May	..	..	..	..	..	55	..	..	39	142	23	2	..	..	..	..	..	..	1	5	120	14	46	..	184	143	309	12	..	8	..	..	1,103
June	..	..	..	..	..	..	..	..	4	172	77	..	..	..	..	..	..	..	..	58	109	150	34	42	130	35	213	..	..	6	16	..	1,046
July	..	..	..	..	..	53	..	..	19	78	15	..	1	48	..	..	..	1	80	6	166	21	6	..	374	8	148	..	..	..	38	10	1,072
Aug.	..	..	..	..	..	..	..	..	1	75	51	..	8	..	..	..	..	..	..	12	165	104	26	..	13	27	174	8	..	7	..	..	671
Sept.	..	..	..	..	1	..	..	..	21	6	49	..	..	..	..	..	1	..	28	48	178	..	77	..	14	43	98	18	..	21	1	..	605
Oct.	..	..	..	..	..	..	..	..	16	33	86	..	2	..	..	..	..	..	..	29	213	..	78	42	59	259	120	..	..	174	1	..	1,112
Nov.	..	..	..	..	..	..	..	..	6	17	1	..	1	1	..	..	..	..	..	28	113	7	10	..	110	160	53	..	..	44	..	..	551
Dec.	2	..	..	..	..	..	..	..	4	32	4	..	..	..	..	..	..	..	..	1	93	..	16	..	88	32	168	..	..	..	..	..	440
Totals	2	1	1	1	2	108	4	1	224	1127	939	2	17	102	1	1	2	1	109	437	1708	296	546	233	1712	1207	2865	58	3	281	84	106	12,181

THREE-STORY DWELLINGS—Including Three-story Stores and Dwellings.

Wards	1	2	3	4	10	11	15	20	21	22	23	24	26	27	29	30	34	35	38	40	41	42	43	46	Totals
January	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	2	..	..	4	..	..	7
February	..	1	..	..	..	..	..	..	..	9	1	..	..	1	1	..	8	..	..	..	..	1	..	..	22
March	..	..	..	..	..	..	..	..	1	13	1	..	..	..	..	..	7	22	4	3	..	4	..	2	57
April	..	..	..	1	1	..	..	..	3	28	..	..	..	..	..	..	18	4	4	..	..	21	..	..	80
May	..	..	2	..	..	..	1	2	2	11	1	..	..	..	..	..	..	..	2	1	..	20	..	..	42
June	..	1	1	1	..	..	..	..	..	7	..	..	..	..	..	..	8	5	2	..	2	19	..	..	46
July	..	..	1	..	..	..	..	..	2	8	15	..	..	..	..	1	1	..	..	..	..	13	..	..	41
August	..	..	1	..	..	..	..	..	..	2	..	..	..	..	..	..	1	..	1	..	..	3	..	16	24
September	..	..	..	2	..	12	..	1	1	3	..	..	..	..	..	..	..	2	4	..	..	3	..	..	28
October	1	..	..	..	..	..	..	..	..	18	1	..	..	..	..	..	2	1	2	..	5	3	..	..	33
November	..	..	..	..	..	..	..	..	..	5	..	1	2	..	..	..	3	..	1	3	..	1	1	1	18
December	..	..	..	1	..	..	..	..	..	4	..	2	..	..	..	..	4	..	..	1	..	7	..	..	19
Totals	1	2	5	5	1	12	1	3	9	109	19	3	2	1	1	1	52	34	22	8	7	99	1	19	417

On the Ground When Wanted

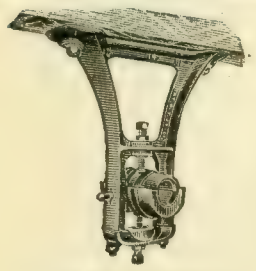
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TERRA COTTA

FLUE LINING, WALL COPING, SEWER PIPE, HOLLOW TILE

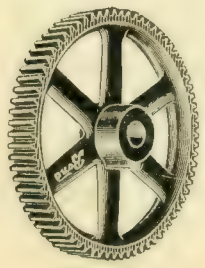
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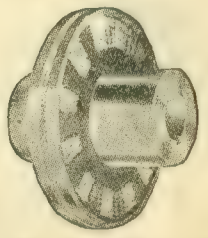
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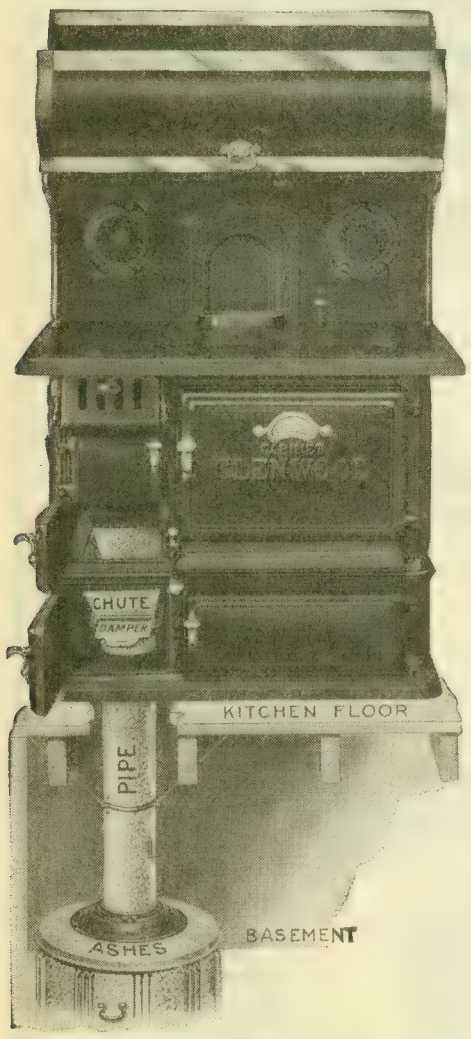
Fire Association of Philadelphia
Capital $3,000,000.-

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No More Ashes To Lug



No clumsy pan to spill dust and dirt on the kitchen floor

The Glenwood Ash Chute

solves the problem. It is located just beneath the grate and connected by a sheet iron pipe straight down through the kitchen floor to ash barrel in cellar. No part is in sight. Not a particle of dust can escape. Just slide the damper once each day and drop the ashes directly into the ash barrel.

The Dust-Tight Cover

to barrel is another entirely new Glenwood Idea and is very ingenious. This is only one of the splendid improvements of the new plain

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the Range without ornamentation or fancy nickel, "The Mission Style" Glenwood. Every essential refined and improved upon. This Range can be had with the latest and most improved Elevated or End Gas Range attachments. It can be furnished with fire box at either right or left of oven as ordered. Our handsome booklet tells all about it.

The Cabinet Glenwood

Henry M. Miller, 46-48-50 North Second St., Philadelphia, Sales Agent

REPORT OF

Philadelphia Trust Company

At the Close of Business December 31, 1925

RESOURCES

Cash on Hand and in Banks	$6,410,257.36
Loans upon Collateral	18,762,679.73
Investment Securities Owned	9,102,207.25
Real Estate	653,013.00
Customers' Liability under Letters of Credit	213,374.50
	$35,141,531.84

LIABILITIES

Capital Stock	$1,000,000.00
Surplus	5,000,000.00
Undivided Profits	1,218,333.52
Letters of Credit Issued	213,374.50
Bills Payable with Federal Reserve Bank	1,000,000.00
Net Accrued Interest and Other Items Payable	76,956.73
Deposits	26,632,867.09
	$35,141,531.84

TRUST FUNDS	**$220,739,240.78**
CORPORATE TRUSTS	**$207,823,000.00**

HENRY G. BRENGLE, President — J. CALVIN WALLACE, Treasurer

Yours to Command for High Grade Service

Deposit your funds with us and receive 4% interest on your Savings.

Make a Will and appoint us Executor so that you may obtain the benefit of our knowledge and experience.

When buying Real Estate bear in mind that we insure titles and will guard your interests.

Any service in the nature of Banking, Decedents estates and Real Estate is here at your command.

Continental-Equitable Title and Trust Company

Twelfth Street Above Chestnut, Philadelphia

Capital $1,000,000 **Surplus $1,500,000**

Deposits Over $14,000,000

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JOHN V. LOUGHNEY, Vice-Pres. and Treas.
JOHN F. McMENAMIN, Sec'y and Asst. Treas.
WILLIAM J. FITZPATRICK, Asst. Sec'y and Treas.
FRANK T. MATTHEWS, Trust Officer
EDWARD STANTON, Asst. Trust Officer
WALTER C. SCHWAB, Title Officer
JOSEPH MALLON, Real Estate Officer
BROWN & WILLIAMS, Counsel

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CHARLES C. DRUEDING — JEREMIAH J. SULLIVAN
JAMES A. FLAHERTY — JOSEPH C. TRAINER
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JOHN KAY, Vice-President and Treasurer

DAVIS G. VAUGHAN, Secretary

ALBERT H. HASSINGER, CHAS. J. FITZGERALD, Asst. Secretaries

ALBERT H. HASSINGER, Assistant Treasurer — MORRISON C. COLYER, Counsel

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502 WALNUT STREET

PHILADELPHIA

Assets over - - - $5,000,000

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Edward J. Thomason — Percy Jackson — Charles G. Colyer
C. S. W. Packard — Samuel W. Baldwin

Franklin National Bank

Chestnut Street West of Broad

Philadelphia, December 31, 1925.

RESOURCES

Loans and Investments	$50,171,536.16
United States Bonds and Certificates	5,494,199.50
Banking House and Office Building	1,500,000.00
Liability under Letters of Credit	15,950.00
Interest Earned Uncollected	206,042.91
Due from Banks	16,412,715.35
Cash and Reserve	5,855,849.56
Exchanges for Clearing House	4,243,742.80
	$83,900,036.28

LIABILITIES

Capital	$2,000,000.00
Surplus	5,000,000.00
Undivided Profits	1,014,503.93
Reserved for Taxes, etc.	130,906.73
Discount and Interest Unearned	42,499.12
Letters of Credit	15,950.00
Deposits	75,696,176.50
	$83,900,036.28

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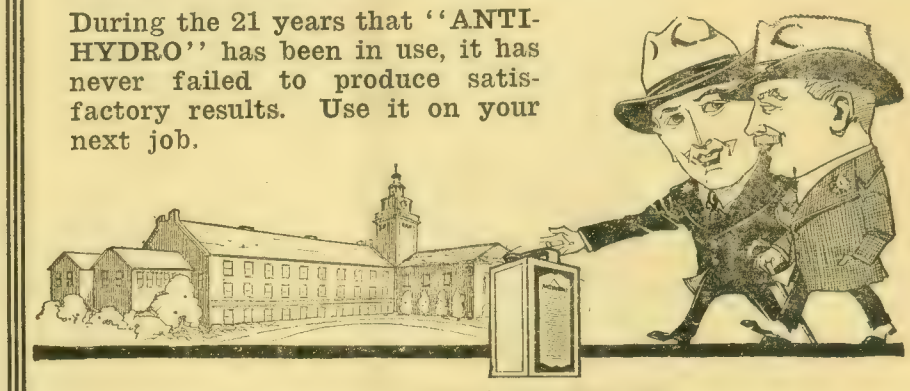
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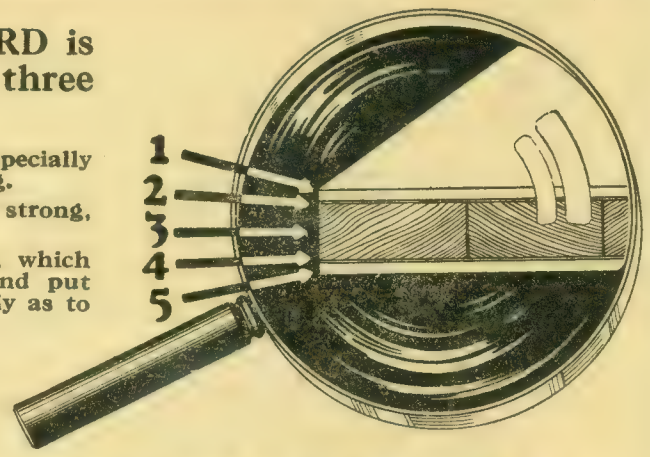
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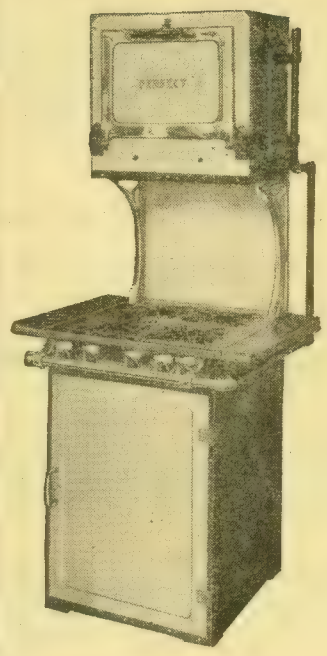
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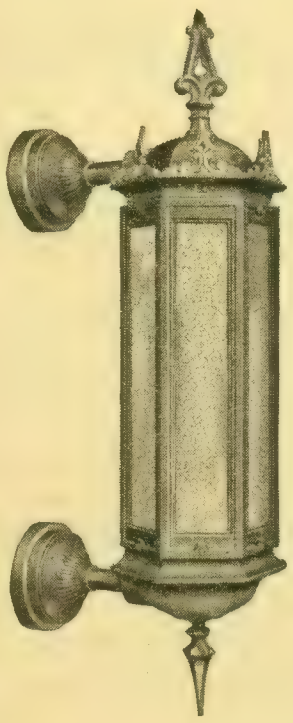
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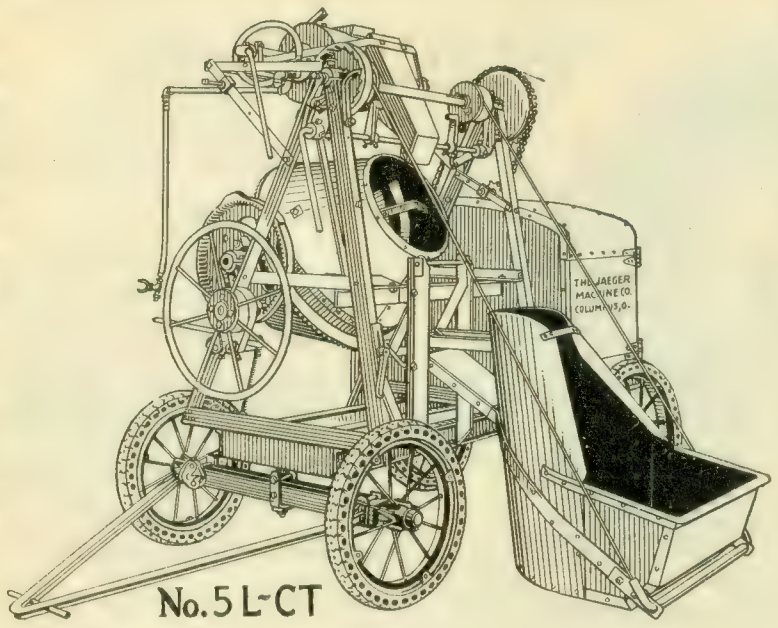
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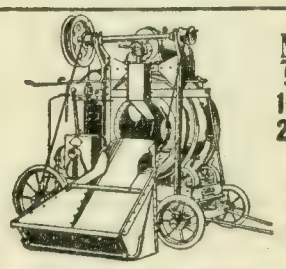
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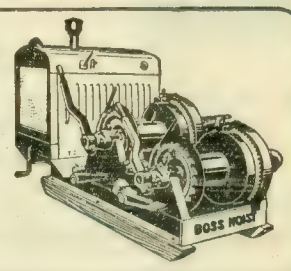
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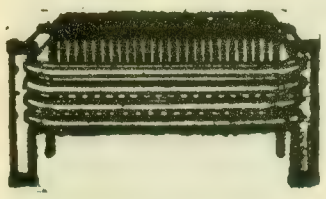
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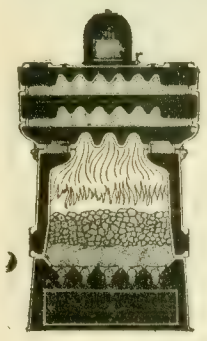
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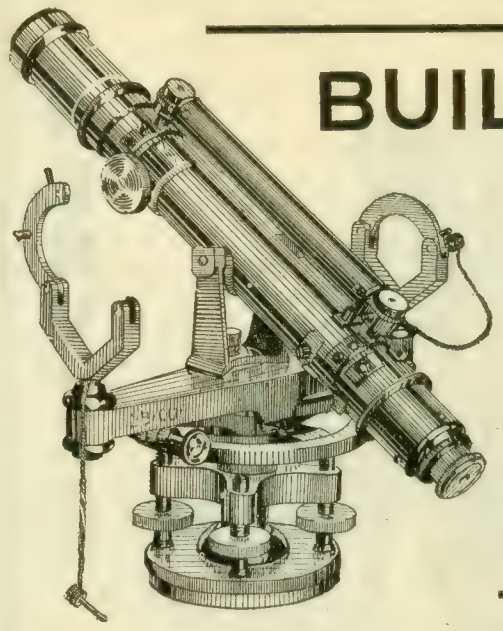
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BUILDERS' GUIDE

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VOLUME XLI
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January 20, 1926

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As The Editor Sees It

REAL ESTATE AND THE CONSTRUCTION INDUSTRY

(Address Delivered by W. C. Clark, Economist, S. W. Straus & Co., before the Seventh Annual Conference of the Harvard Committee on Economic Research, November 13, 1925.)

(Continued from issue of January 6th)

The Suburban Movement

Finally, the suburban movement is a powerful force which will continue to increase the demands upon the construction industry. Even if the record pace of the last two or three years should not be maintained, it is probable that the suburban movement will continue at a more rapid rate than before the War. Much of the residential building in the larger cities in the last few years is a result of this movement from the congested centers of our cities to the suburbs where the advantages of living in the country can now be secured without sacrifice of many of the conveniences and pleasures of the city. The automobile, the motor bus, the electric trolley, and more adequate steam transportation have brought the suburban home within the range of the great mass of middle-class families, even though the breadwinners must continue to work in the city. The chain store is bringing to every community the same efficient merchandising which the city dweller enjoys, while the motion picture, the radio, the municipal golf course and the community center are equalizing the score in so far as cultural and recreational advantages are concerned.

The movement to suburban districts increases the demand for building in several ways. In the suburban areas, it means a demand not only for homes but also for schools, churches, post-offices, city halls, club houses, shops, stores, an all the complex capital equipment of the modern city. Again in the district from which the population shifts its abode, it means in many cases either the alteration of old buildings and their adaptation to new uses or their complete demolition and replacement by entirely new types of structures. Where such functional changes do not take place, and the vacated property continues to be used for residential purposes, it is taken care of by the perpetual increase in the city's population. The growth of the city proper continues in spite of the suburban movement. There is always a proportion of the population which prefers the conveniences and other attractions of a home close to the hub of the city's life. Thus, either from choice or from necessity, tenants will continue to look for the city home or the near-in-apartment house or hotel. In the larger cities, also, a factor of increasing importance is the demand of the well-to-do who spend their summers in their suburban country homes and who also demand a down-town apartment de luxe for the winter months.

The net result of all these conflicting forces it is difficult to estimate in precise quantitative terms. Yet the number and character of the forces making for a higher normal are such that he would be a bold prophet who would assert that the building normal of the future is likely to be less than that of pre-war years. If I am right in concluding that it is likely to approximate the pre-war normal and if either Dr. King's or my own estimate of that normal is reasonably correct, we may safely conclude that the building cycle of the future will play about a level not markedly lower than that of the last few years.

Thus after a long but I think necessary digression, we return to the immediate object of our inquiry, the cyclical movement of building during the next few months and its relation to the similar

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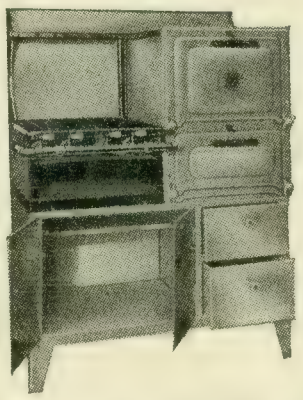
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movements of general business. It will be recalled that the building industry, or rather the unsatisfactory but only indexes we have of building activity, namely, building permits and contracts awarded, tend to move early in the business cycle. On the upward swing of the cycle they have usually preceded the movement of general business (notably in 1903-04 and in the recovery after the depression of 1920-21), but to this rule there have been a number of exceptions, as for instance in 1911-12. On the downswing, however, building permits almost invariably anticipated the reactions in the general business curve. For instance, an examination of the three major cycles preceding the war will show that building permits preceded business by intervals of from two to six months. This historical experience gives further justification to those who are watching the building curve so closely for omens of import to general business.

Those who fear that a rapid downward movement of the building curve will come in the course of the next few months point to certain evidences of local over-building, increasing vacancies, and apparent weakness in the rental market.

Overbuilding Local and Sporadic

Now it is true that there has been over-building, but by and large only in certain sections of certain cities or in certain types of facilities in a number of cities. We must be careful not to generalize too quickly from scattering local evidences. A city may be over-built in high-class eight to eleven-room apartments, but very much under-built in apartments which offer four, five or six rooms at moderate prices. Similarly, the Rogers Park district of Chicago may be over-built generally while even a very similar district in another section of the city, say, the South Shore area, may have an inadequate supply of residential facilities for those who prefer to live in that section. Of course there is competition on the margin, especially in time of depression, between all sections of a city and to some extent between various kinds of facilities, but those who are actively engaged in the renting or real estate lending business know that this competition is far from being "free," in the economic sense. In the summary of their semi-annual survey of 225 cities for June, 1925, the National Association of Real Estate Boards reported that 30 per cent. of the cities indicated some degree of over-building in some type of construction but only 3 per cent. in all types. Further, as compared with June, 1924, there was a considerable increase in the number reporting over-building in some type of construction but no increase in the number reporting general over-building. In this connection it should be noted that in a growing city, a moderate over-building soon corrects itself unless indeed building activity continues at an abnormal rate. Now, in the last year at any rate, there has been evidence in several quarters of a disposition on the part of builders to allow this automatic correction process to work itself out. Thus several cities and districts which were reported as over-built in certain types of structures a year ago have not shared in the high rate of activity of the last few months. In some districts residential building which bulked so large in last year's total has been less prominent in the operations for 1925. After a record-breaking year in 1924, New York experienced a lull in the first half of the current year but the break-neck pace was once more resumed in August and 1925 will hang up another record. An appeal for caution in high class apartment building in Chicago issued in the fall of 1923 by our own organization was followed by a moderation of operations in that particular line which allowed a better absorption of space during the past year and a renewal of activity in recent months. Los Angeles offers another instance of a moderation of the pace of a very active building boom with-

(Continued on page 47)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Boys' Catholic High School, Sixteenth and Allegheny avenue, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Arch Diocese of Philadelphia, D. Cardinal Dougherty, Eighteenth and Race streets. Plans about completed. Architects will be ready for bids in one month.

Residences, Lots 66-67, Wynnewood, Pa. Architect, Richard A. Kerns, Jr., 109 South Twenty-second street, Philadelphia. Owner, Harvey Thompson, care of architect. Stone, brick, building block, stucco, 2½ stories, 35x76 feet, slate roof, hardwood floors, cement work, vapor heat, electric light, metal lath, tile work. Plans in progress.

Garage, Thelma and Whitaker streets, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, De Marco Brothers, 608 East Wyoming avenue, Philadelphia. Brick, steel, 1 story, 40r70 feet. hot water heat, electric light, slag roof, cement floors, hollow metal skylights. Owners taking sub-bids.

Residences (24), Stores and Residences (7), Gibson, Sixtieth to Sixty-first streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, James A. Kincaid, 2206 Fitzwater street, Philadelphia. Brick, 2 stories, 16x38 feet, slag, slate and tin roof, hardwood floors, hot water heat, electric light, tile and marble work, garages in basement. Owner taking sub-bids.

Store Building (alts. and add.), 1501-03 Germantown avenue, Philadelphia. Architect, Edward L. Rothschild, Bankers' Trust Building, Philadelphia. Owners, Jacobs, Inc., on premises. Brick, 3 stories, 100x30 feet, slag roof, pine floors, elevators, structural steel, copper bars, plate glass, rolled steel doors, marble work, steam heat, electric light. Plans about completed. Architect ready for bids.

Residence and Garage, Hermit lane, Roxborough, Philadelphia. Architect, Andrew O. Borzner, 717 Walnut street, Philadelphia. Owner, Harry Hearns, care of architect. Stone, 2½ stories, 29x45 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Store, Apartment and Garage alts.), Fitzwater and Warnock streets, Philadelphia, $20,000. Architect, Henry Coscia, Broad and Chestnut streets, Philadelphia. Owner, Angelo Sella, on premises. Interior and general alterations, hot water heat, oil burning, electric light, metal lath, tile work, slag roof, hardwood floors, cement work, reinforced concrete, general alterations. Plans in progress. Architect will be ready for bids in 3 weeks.

Store, Apartment and Service Station, Oxford pike and Verrie road, Philadelphia, $25,000. Architect, Henry Coscia, Broad and Chestnut streets, Philadelphia. Owner, Nicola Ditale, care of architect. Brick, 2 stories, 33 feet 6 inches x 35 feet 4 inches, 1 story, 16x21 feet, slag and tile roof, hardwood floors, hot water heat, electric light, tile work, copper bars, plate glass, cement floors. Plans in progress. Ready for bids.

Bank and Office Building, Broad, between Walnut and Sansom streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Fidelity Trust Co., Broad and Chestnut streets, Philadelphia. Brick, granite, reinforced concrete, carved stone and marble, steel, tile and marble work, metal lath, iron work, 20 stories, 299x175 feet. Plans about completed. Architects will take bids.

Warehouse, Ninth and Tioga streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Frank Snedaker & Co., Inc., Hutchinson and Tioga streets, Philadelphia. Brick, steel, concrete, 2 stories. Preliminary plans in progress.

Community Centers (6), various locations, Philadelphia. Owners, Jewish Federation, Philadelphia. Brick, stone, steel, 3 stories and basement. Work contemplated. Architects not yet selected.

Rebecca Gratz Club, Philadelphia. Owners, Rebecca Gratz Club, 719 North Sixth street, Philadelphia. Brick, stone, steel, concrete, 5 stories. Sketches drawn. Architect not yet selected. Work contemplated.

Mt. Sinai New Building and Maternity Building, 1425 South Fifth street, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Mt. Sinai Hospital, on premises. Brick, stone, concrete, steel, 4 stories and basement, 8 stories and basement. Work contemplated.

Store, 8014-16 Old York road, Philadelphia. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owner, Milton Stern, 685 North Broad street, Philadelphia. Brick. Plans about completed. Will be ready for bids in a week.

Bank Building (alts. and add.), 6601 Rising Sun avenue, Philadelphia. Architect, Christian H. Fries, Drexel Building, Philadelphia. Owners, Lawndale Bank & Trust Co., on premises. Brick, addition, 2 stories, 33x50 feet, slag roof, oak floors, heating and lighting extension, structural steel, limestone, plumbing, bank partitions. Plans in progress. Ready for bids in a few days.

Apartment House, Thirty-third and Columbia avenue, Philadelphia, $1,750,000. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owners, Parkway Apartment Corporation, care of architect. Brick, terra cotta, steel, concrete, 14 stories (400 apartments), 110x170 feet, built-up roof, tile and composition roof, hardwood, tile and cork tile and composition roof, hardwood, tile and cork tile floors, 4 passenger elevatrs, 1 freight elevator, 12 stores, concrete footings, swimming pool, steam heat, electric light, oil burning, tile and marble work, vault lights, kalamein doors, plate glass, copper bulks, ornamental iron work, incinerators, closet beds, refrigerator, built-in kitchen equipment, travertine wall finish. Plans about completed. Will be ready for bids in one week.

City Hall Annex, Juniper and Filbert streets, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, City of Philadelphia, Bureau of City Property, Department of Public Works. Brick, concrete, steel, limestone, 15 stories, 106x175 feet. Plans about completed. Will be ready for bids in two weeks.

Apartment House and Store, Southeast Corner Twentieth and Walnut streets, Philadelphia, $1,500,000. Architect, private plans. Owners, Huntingdon Hall, care of F. H. Smith Co., Washington, D. C. Steel, brick, limestone, terra cotta, 16 stories, 44x135 feet, slag roof, cement boors, hardwood floors, elevators, steam heat, electric light, metal lath, tile and marble work. Owners will build.

School, Sixty-sixth and Elmwood avenue, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due Feb. 2nd at noon.

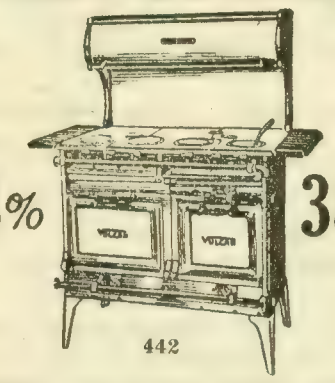
Junior High School, Twenty-sixth and Cumberland streets, Philadelphia. Architect, I.

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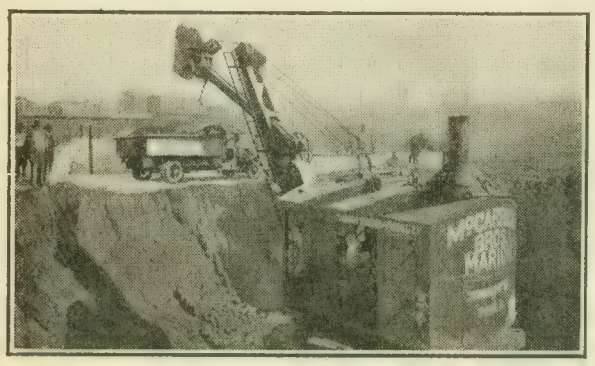
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T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due Feb. 2nd at noon.

Residence and Garage, Chestnut Hill, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 55x37 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Ready for bids in two weeks.

Garage and Service Station, Rittenhouse street near Greene street, Philadelphia. Architect, Richard W. McCaskey, 112 South Sixteenth street, Philadelphia. Owners, Rittenhouse Motor Co., on premises. Brick, stone, 1 story, 60x60 feet, slag roof, cement and pine floors, gas steam heat, electric light, rolled steel skylights, ornamental iron work, architectural terra cotta, painting and glazing. Architect taking bids due January 25th.

Theatre, Ogontz avenue, South of Chelten avenue, Germantown, Philadelphia. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owners, Goldner Brothers, Greene and Chelten avenues, Philadelphia. Brick, reinforced concrete, stone, fireproofing, limestone, 1 story, 60x195 feet (electric work reserved), vapor heat, metal lath, tile and marble, rolled steel sash, fire doors, ornamental iron work, slag roof, concrete and linoleum boors, hollow tile, roof ventilators. Owners taking bids due January 25th.

Alterations and Additions, Southwest Corner Fifteenth and Callowhill streets, Philadelphia. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, William F. Meenehan, care of architect. Brick, steel, limestone, 2 stories and basement, 24x1 feet (new add.), slag roof, pine and cement floors, plate glass, granite work, heating and lighting alterations, plastering, rolled steel sash, metal bulks, ornamental iron work, iron grills. Architect taking bids due January 22nd.

Store and Apartment, Juniper and Locust streets, Philadelphia. Architect, L. V. Scherr, 1036 Drexel Building, Philadelphia. Owner, M. I. Lipschutz, care of architect. Limestone, brick, 4 stories, 20x108 feet, slag roof, wood floors (heating reserved), electric light, tile work, wood sash, sheet metal work, cement work, plastering, hardware, painting and glazing, ornamental iron work. Architect taking bids due January 23rd.

Playground and Swimming Pool, Third, Fourth, Shunk and Oregon avenue, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, City of Philadelphia, Department of Public Welfare, Bureau of Recreation. Reinforced concrete, brick, limestone, steel, 90x50 feet (plumbing and electric work separate), slag, shingle, asphalt roof, cement floors, painting and glazing, waterproofing, steel doors, floor hardener, ornamental iron work. Owners taking bids due January 26th.

Residences (60), Store and Residences (4), Second and Sparks streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Kuhn & Lowery, Fifth and Rockland streets, Philadelphia. Brick, 2 stories, 15x38 feet, hot water heat, electric light, tile and marble work, slag and tin roof, hardwood floors, metal lath, cement work, 30 basement garages. Owners taking sub-bids.

Parish Buildings, Springfield avenue and Farragut terrace, Philadelphia. Architect, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, St. Francis De Sales, Rt. Rev. Bishop Crane, Forty-seventh and Springfield. Architect taking bids due February 1st.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Owners taking bids due January 27th. Branch sewers, removal of present sewer and construction of new sewer, inlet, laterals and appurtenant work, test borings. Inquire Room 416. Certified check 5 per cent. of amount of bid.

Supplies, Philadelphia Navy Yard, Philadelphia. Owners, Department of Supplies and Accounts, Navy Department, Washington, D. C. Owners taking bids due January 26th, 10 A. M., for delivery of steel cable, copper and brass pipe to the Philadelphia Navy Yard. Proposals from the supply officer or the Bureau of Accounts and Supplies, Washington, D. C.

Supplies. Purchasing Agent E. J. Lafferty, 329 City Hall, Philadelphia. Owners taking bids due January 26th at noon. Lumber, tile, chemical hose, burnt ground lime, manure, bituminous materials.

Store, Northwest Corner Lincoln Drive and Mt. Pleasant avenue, $6,000. Architect, private plans. Owners, American Stores Co., 424 North Nineteenth street, Philadelphia. Brick, 1 story, 18x100 feet, slag roof, pine floors, electric lighting. Permit granted.

Residences (4), West side Craig street, South of Arthur street, $3,000 each. Architect, private plans. Owners, Holmesburg Concrete Co., Holmesburg, Pa. Brick, 2 stories, 16x25 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Office and Residence (add. and alts.), 334 South Smedley street, $3,000. Architect, private plans. Owners, Friel-McLeister, Inc., 1615 Spruce street, Philadelphia. Brick, 1

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story add., 12½x14½ feet, general alterations. Permit granted.

Residence, East side Mercer street, North of Lefevre street, $3,000. Architect, private plans. Owner, Antoni Zdanowski, 4507 Almond street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, pine floors, electric light. Permit granted.

Residences (14), South side Pennsdale street, East of Terrace street, $5,000 each. Architect, private plans. Owner, Ralph Di Faliro, 1422 Moore street, Philadelphia. Brick, 2 stories, 16x30 feet, 11x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, Northwest Corner Eighty-ninth and Ashwood avenue, Philadelphia, $5,000. Architect, private plans. Owner, John Sakovich, 8511 Guyers avenue, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (60), Sixty-seventh and Oxford streets, Philadelphia, $308,000. Architect, private plans. Owner, George H. Weinnott, 826 Public Ledger Building, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, electric light, hot water heat. Permit granted.

Store and Apartment (alts.), 2432 South Broad street, Philadelphia, $3,000. Architect, private plans. Owner, Simon Kaplan, 243 South Sixty-second street, Philadelphia. General alterations. Permit granted.

Residences (10), East side Hegerman street, South of Devereaux street, $4,500 each. Architect, private plans. Owners, Tacony Housing Association, 3721 Disston street, Philadelphia. Brick, 2 stories, 15x26 feet, 12x12 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Store and Residence (alts.), Northwest Corner Seventeenth and Ingersoll streets, $2,800. Architect, private plans. Owner, Harry Alisker, 814 North Sixth street, Philadelphia. General alterations. Permit granted.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Manufacturing Building (add. and alts.), 1627-29 East Passyunk avenue, Philadelphia, $6,300. Architect, private plans. Owner, Joseph Reinhardt, on premises. Brick, 2 stories add., 32x30 feet, general alterations. Contract awarded to William G. Uhler's Sons, Northeast Corner Twenty-fifth and Snyder avenue.

Residences (2), Sherman street, North of Carpenter street, $5,500 each. Architect, private plans. Owner, Horace Pasquale, Sherman and Carpenter streets, Philadelphia. Brick, 2 stories, 18x39 feet, hot water heat, electric light, pine and hardwood floors. Contract awarded to Burholme Const. Co., Burholme, Philadelphia.

Residence, East side Montour street, North of St. Vincent street, $5,500. Architect, private plans.. Owner, Anthony De Muzio, Burholme, Philadelphia. Brick, 2 stories, 15x58 feet, slag roof, hardwood and pine floors, hot water heat, electric lght. Contract awarded to Burholme Contracting Co., Burholme, Philadelphia.

Store and Storage (add. and alts.), Southwest Corner Twenty-second and Rittenhouse streets, Philadelphia, $5,000. Architect, private plans. Owner, George B. Mann, 6934 Paschall avenue, Philadelphia. Brick, 1 story add., 17x16 feet, general alterations and heating. Contract awarded to Joseph R. Halzard, 2204 Manning street, Philadelphia.

Private School, 717 Spruce street, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owners, Lincoln College (Preparatory School), 536 Pine street, Philadelphia. Stone, brick, 3 stories and basement, 40x130 feet, steam heat, electric light, metal lath, tile and marble work, slag roof, maple floors, metal ceilings, cast stone, ornamental iron work, iron stairs, floor hardener, hollow metal skylights, bond, kalamein doors. Contract awarded William Gilchrist, 3516 B street, Philadelphia.

Bank Building, Lehigh avenue below Eleventh street, Philadelphia. Architect, private plans. Owners, Phoenix Trust Co., on premises. Brick, limestone, 2 stories and basement, 50x100 feet, steam heat, electric light, metal lath, tile work, slag roof, cement floors, ornamental iron work. Plans in progress. Contract awarded Harry Gill, Jr., 2515 Germantown avenue, Philadelphia.

Sub-Station, Sixth and Susquehanna avenue, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, steel, 2 stories, 53x66 feet, steam heat, electric light, slag roof, cement floors, tile work, rolled steel sash. Contract awarded John N. Gill Const. Co., City Center Building, Philadelphia.

Storage Warehouse, 1236-38 Cadwalader street, Philadelphia. Architect, private plans. Owners, Lynn Storage Co., Second and Thompson streets, Philadelphia. Reinforced concrete,

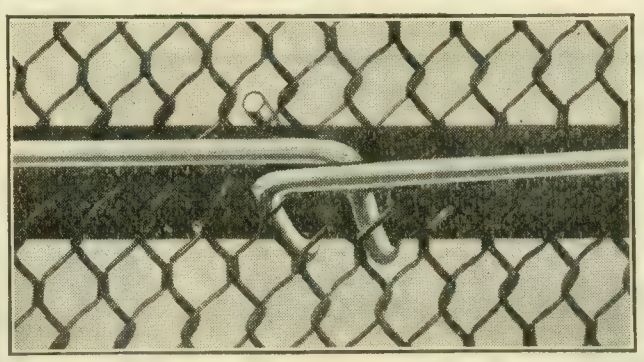
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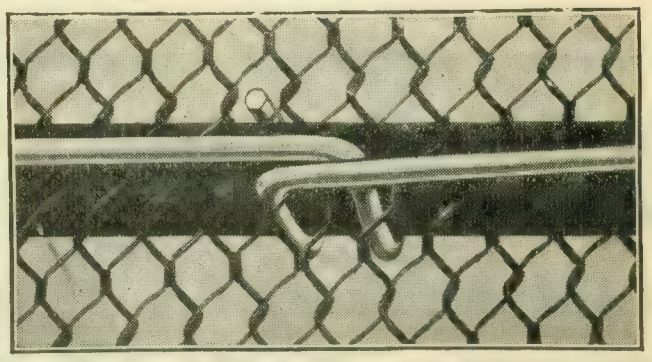
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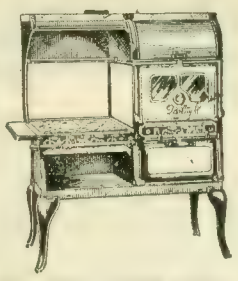




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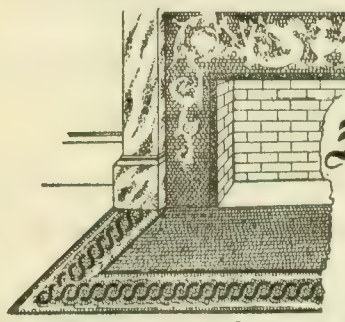


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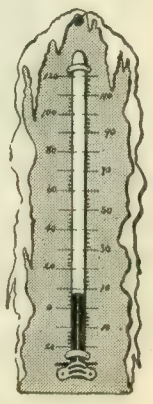
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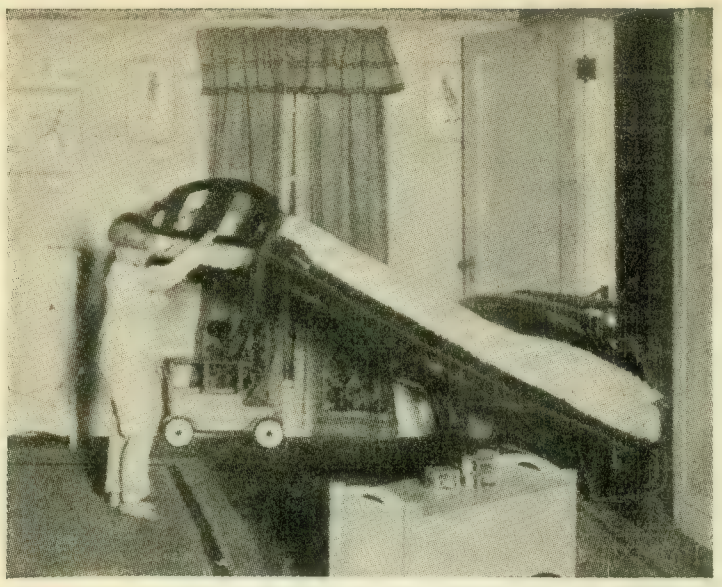
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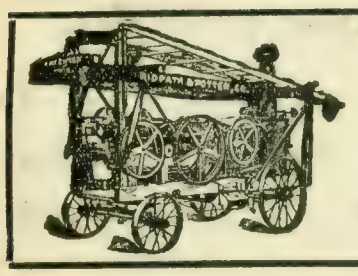
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brick, 5 stories and basement, 33x100 feet, slag roof, cement floors, hollow tile, electric light, rolled steel sash, ornamental iron work, plumbing. Contract awarded Murphy-Quigley Co., 1524 Sansom street, Philadelphia.

Residence and Garage (alts.), School Lane, West of Wissahickon avenue, $6,000. Architect, J. V. Van Pelt, 126 East Fifty-ninth street, New York. Owners, Mary and Jane Mason, on premises. Carpentry, mill work, plastering, oak floors, painting, glazing, stone add., 2 stories, 5 feet 10 inches x 28 feet 5 inches. Contract awarded to William J. Gruhler Co., 219 East High street, Philadelphia.

Garage, 224-26 Shedaker street, Philadelphia, $20,000. Architect, private plans. Owner, Samuel Miller, 633 West Mt. Pleasant avenue, Philadelphia. Brick, 1 story, 43 feet 3 inches x 156 feet 11 inches, slag roof, cement floors. Contract awarded to John De Paul & Brothers, 80 East Sharpnack street.

Palace of Fashion, Broad and Pattison streets, Philadelphia. Associate architects, George F. Pawling, Louis Kahn, Herman Poloss, 1432 South Penn Square, Philadelphia. Owners, Texitle Imperial Exhibit Association, C. Myer, 523 Chestnut street. Steel, metal lath, stucco, 1 story, octangular shape, 840 feet in diameter, composition roof, cement and oak floors, painting, plumbing, plastering, sheet metal work, electric light, metal lath, rolled steel sash (steel reserved). Contract awarded Barras Const. Co., 366 Madison avenue, New York. Architects and builder taking sub-bids.

Hotel, Club and Offices, Northeast Corner Twentieth and Sansom sterets, Philadelphia. Architect, A. L. Harmon, 19 West Forty-fourth street, New York City. Owners, Emergency Aid of Pennsylvania, Mrs. J. Willis Martin, Twenty-first and Walnut streets, Philadelphia. Brick, steel, 12 stories and basement, 84x72 feet, slag and tile roof, cement and linoleum floors, steam heat, electric light, metal lath, tile and marble work, rolled steel skylights, tin-covered doors, floor hardener, iron stairs, Membrane waterproofing, dampproofing, ornamental terra cotta. Contract awarded to Wark Co., 1600 Walnut street, Philadelphia.

Store Building (alts.), 1628 Chestnut street, Philadelphia. Architect, Louis H. Friedland, 56 West Forty-sixth street, New York City. Owners, Mitchell-Fletcher Co., Inc., Eighteenth and Chestnut streets, Philadelphia. General alterations, carpentry and mill work, plastering, electric work, painting and glazing, hardware. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Store (alts.), Northwest Corner Eighteenth and Chestnut streets, Philadelphia, $20,000. Architect, private plans. Owner, George B. Evans, 1106 Chestnut street, Philadelphia. Carpentry and mill work, painting and glazing, lastering, plumbing, hardware. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Store and Storage Building (alts.), 1728-30 Fairmount avenue, $3,850. Architect, private plans. Owner, George P. Henderson, 1701 Fairmount avenue, Philadelphia. General alterations. Contract awarded to George P. Clayton, 1817 North Twentieth street, Philadelphia.

Residence (alts.), 717 Spruce street, Philadelphia, $3,000. Architect, private plans. Owner, Manfred C. Jankayaker, 721 Spruce street, Philadelphia. General alterations. Contract awarded to William Gilchrist, 357 North Thirteenth street, Philadelphia.

Warehouse (alts.), 720-26 Vine street, Philadelphia, $25,000. Owners, C. and H. Rose, 1778 Frankford avenue, Philadelphia. General alterations. Contract awarded to Morris Wheeler Co., Thirtieth and Walnut streets.

Residence (add. and alts.), Northwest Corner Thirteenth and Norris streets, $6,000. Architect, private plans. Owner, John McAunly, 1718 South Nineteenth street, Philadelphia. Brick, 1 story add., 20x11 feet 9 inches, general alterations. Contract awarded to Acme Const. Co., 2025 North Sixty-second street, Philadelphia.

Synagogue (add. and alts.), 5217 Woodland avenue, Philadelphia, $5,800. Owners, Woodland Avenue Hebrew Association, on premises. Brick, 2 stories side add., 4x20 feet, general alterations. Contract awarded to David Resnick, 1710 North Lindenwood street.

Stores and Garages, 908 to 16 North Broad street, Philadelphia, $4,000. Architect, private plans. Owner, John R. Maxwell, 1600 Walnut street, Philadelphia. General fire repairs. Contract awarded to John Schnabel, Inc., 802 Abbott Building, Philadelphia.

Store and Residence (add.), 6830 Ogontz avenue, Philadelphia, $3,700. Architect, private plans. Owner, Salvatore Cusani, 5731 North Twelfth street, Philadelphia. Stone, 1 story add., 15x33 feet. Contract awarded to William J. Baltz, Sixty-sixth and Lawnton avenue, Philadelphia.

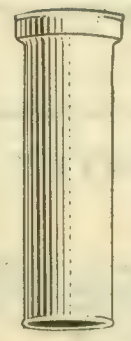
Store and Residence (alts.), Southwest Corner Forty-second and Viola streets, $2,800. Architect, private plans. Owner, Morris Metzman, Twenty-seventh and Allegheny avenue, Philadelphia. General alterations. Contract awarded to J. Landau, 1806 North Seventh street, Philadelphia.

Store (alts.),) 126 South Eighth street, Philadelphia, $2,000. Architect, private plans. Owner, Louis W. Allen, 126 South Eighth street, Philadelphia. General alterations. Contract awarded to Robbins Contracting Co., 1137 North Front street, Philadelphia.

Stores (add. and alts.), 7144 Elmwood avenue, Philadelphia, $10,500. Architect, private plans. Owner, Allen Robinson, Seventy-second and Elmwood avenue, Philadelphia. Brick, 1 story add., rear 16x29 feet, front 16x8 feet, general alterations. Contract awarded to Isador Rabinovitz, Seventy-second and Elmwood avenue.

Residence (alts.), 1719 Wallace street, Philadelphia, $2,500. Architect, private plans. Owner, Isabelle Mustaro, 5007 Chestnut street, Philadelphia. General alterations. Contract awarded to J. Mustaro, 5007 Chestnut street, Philadelphia.

New School of Practice, Spring Garden, West of Thirteenth street, Philadelphia. Architect, I. T. Catherine, Nineteenth above


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Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contracts awarded: William Langhorne, 10 South Eighteenth street Philadelphia, $465,787; electric, Walker-Kepler, 531 Chestnut street, Philadelphia, $15,-993; plumbing, Philadelphia Piping & Equipment Co., 1605 Rockland street, $17,170; heating, Philadelphia Piping & Equipment Co., 1605 Rockland street, $27,500; ventilating, Mellon & Co., 4415 Ludlow street, Philadelphia, $1,985. Electric, Fifty-third and Media Streets School, Walker-Kepler, 531 Chestnut street, Philadelphia, $65,151. Equipment, Fifty-ninth and Lancaster School, Mitchell Brothers, 2125 Race street, Philadelphia, $94,-584. Specification 469, South Philadelphia Girls' High School, Lam Building Co., 1001 Wood street, Philadelphia, $2,490. Equipment, Eighteenth and Luzerne School, Mitchell Brothers, 2125 Race street, Philadelphia, $94,584. Specification 472, Northeast High School, new balcony, Richmond & Kemp, 1840 Germantown avenue, $623. Specification 475, heating, S. Faith, 2427 Pennsylvania avenue, Philadelphia, $778.

Sales Room and Service Building, Broad street, Ridge, Mellon and Potts, Philadelphia. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owner, Joseph Greenburg, Widener Building, Philadelphia. Lessees, Neel Cadillac Co., 114 North Broad street, Philadelphia. Brick, cut stone, cast stone, steel, 8 stories and basement, slag roof, cement floors, elevators, painting and glazing, roof ventilators, plumbing, R. I. W. waterproofing, architectural terra cotta, area gratings, bond, fire doors, hollow metal sash, tile and marble work, metal lath, electric light. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia.

Sesqui-Centennial Building, Philadelphia, Pa. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, State of New Jersey, J. F. Margerum, Trenton, N. J. Stucco, structural steel, 2½ stories, 35x60 feet, 50x100 feet, slate roof, quarry tile, stone and hardwood floors, ornamental iron stairs, kitchen equipment, tile and marble, metal lath. Contract awarded to W. C. Ehret, Trenton Trust Building, Trenton, N. J. Plumbing to N. Connolly, 1404 North Eighteenth street, Philadelphia. Electric to Randolph Electric Co., Hunt Building, Trenton, N. J.

Residence and Garage, Germantown, Philadelphia. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, Ralph A. Gibbs, care of architect. Stone, limestone, cut stone, hollow tile, stucco, 2½ stories, 79x45 feet, 48x52 feet (plumbing, heating, electric and weather strip reserved), tile roof, oak, pine and cement floors, metal lath, tile work, bond, weather stripping, ornamental iron work. Contract awarded to McNeill Const. Co., Schaff Building, Philadelphia.

Filling in City Owned Property, East of Broad street, South of Pattison avenue. Owners, City of Philadelphia, Department of City Property, 216 City Hall. Contract awarded Richards-Kelly Co., Broad and Pattison avenue, Philadelphia, $200,000.

Garage, East side Kensington avenue, North of Glenwood avenue, $9,000. Architect, private plans. Owner, Fred Munz, 3428 Reach street, Philadelphia. Brick, 1 story, 42x58 feet, slag roof, cement floors, electric work. Contract awarded to A. Earl Barnes Co., 2044 East Clementine street.

Store and Residence (add. and alts.), 3250-52 North Front street, $5,000. Architect, private plans. Owner, S. Wessel, on premises. Brick, 1 story add., 12x24 feet, general alterations. Contract awarded to J. Maurer & Co., 1304 North Second street, Philadelphia.

Residence (add. and alts.), 1529 North Twentieth street, Philadelphia, $2,800. Architect, private plans. Owner, Lou Johnson, 1529 North Twentieth street, Philadelphia. Brick, 1 story add., 9x8 feet, general alterations. Contract awarded to W. L. Davis, 1332 North Twenty-second street, Philadelphia.

Store and Residence (add. and alts.), 52 West Chelten avenue, $3,600. Architect, private plans. Owner, M. B. Kohn, 52 West Chelten avenue, Philadelphia. Brick, 1 story add., 20x15 feet, general alterations. Contract awarded to R. M. Peterson & Son, 16 Queen Lane, Philadelphia.

Residence (alts.), 5131 Hatfield street, Philadelphia, $2,000. Architect, private plans. Owner, O. W. Green, 5024 Willows avenue, Philadelphia. General alterations. Contract awarded to Thomas Strachan, 5108 Hatfield avenue.

Store and Residence (alts.), Northwest Corner Germantown avenue and Norris street, Philadelphia, $2,000. Architect, private plans. Owner, Martin Eisin, 915 Walnut street, Philadelphia. General alterations. Contract awarded to J. Leiken, 509 South Sixth street, Philadelphia.

Manufacturing Building, East side Meadow street, South of Reed street. Engineers, Stone & Webster, Inc., Boston, Mass. Owners, The Franklin Sugar Refining Co., on premises. General alterations. Contract awarded to Stone & Webster, Inc., Boston, Mass.

Store and Residence (add. and alts.), 2937 North Twenty-second street, Philadelphia, $2,500. Architect, private plans. Owner, Israel Kunis, on premises. Brick, 1 story add., rear 12x23 feet, side 3x28 feet, general alterations. Contract awarded to N. Roznisky, 520 Dickinson street, Philadelphia.

Apartment House (alts.), 205 North Thirty-fifth street, Philadelphia, $2,100. Architect, private plans. Owner, care of Mr. Reinhardt, agent, 1524 Chestnut street, Philadelphia. General alterations. Contract awarded to Evans-Steele Co., 2217 Chestnut street.

Manufacturing Building (alts.), 120 East Luray street, $2,000. Architect, private plans. Owners, Northeastern Ice Mfg. Co., 120 East Luray street, Philadelphia. General alterations. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Store and Residence (add. and alts.), 5226 Wakefield street, $2,000. Architect, private plans. Owner, John Panetto, on premises. Brick, 1 story add., 14x15 feet, general alterations. Contract awarded to Joseph Moretto, 5019 Portico street, Philadelphia.

Restaurant (alts. and add.), 23 South Eighth street, Philadelphia. Architect, William A. Charr, Victory Building, Philadelphia. Owner, J. Bain, care of architect. Electric

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light, maple floors, metal lath, tile and marble, plumbing, ventilators, metal ceiling, wire work, ornamental iron work, store fixtures, hollow metal skylights. Contract awarded Daniel Josephson, 5404 Walnut street, Philadelphia.

PENNSYLVANIA
Construction News

Apartment House (alts. and add.), Paoli, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, H. K. Reed, care of architect. Plans completed. Architect ready for bids.

Residence, Lot 257, Wynnewood, Pa. Architect, Richard A. Kerns, 109 South Twenty-second street, Philadelphia. Owners, Wynnewood Realty Co., 109 South Twenty-second street, Philadelphia. Stone, 2½ stories, 37x78 feet, slate roof, hardwood floors, cement work, hot water heat, electric light, metal lath, tile work. Plans in progress.

Residences (14), Cottage and Hartel streets, Holmesburg, Pa. Architect, Henry Coscia, Broad and Chestnut streets, Philadelphia. Owner, Mathew Della Porta, 1624 South Fifteenth street, Philadelphia. Brick, 2 stories, 15 feet 8 inches x 35 feet, slag roof, hardwood floors, hot water heat, electric light, metal lath, garage in basement. Plans in progress. Ready for sub-bids.

Hospital Buildings, Bryn Mawr, Pa., $1,000,000. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, Bryn Mawr Hospital, care of W. Hinkle Smith, Liberty Building, Philadelphia. Stone, limestone, brick, steel. Preliminary plans in progress. Too early for details.

School, Lansdale, Pa. Architect, not selected. Owners, Lansdale School Board, Lansdale, Pa. Work contemplated.

Theatre, Carlisle, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, name withheld. Fireproof, 2 stories, 50x220 feet. Plans in progress.

School, Northampton Heights, Bethlehem, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of City of Bethlehem, Pa. Brick, stone, 2 stories and basement. Architects selected. Plans in progress.

New Convalescent Home, Torresdale, Pa. Owners, The Convalescent Home, care of Jewish Federation, Philadelphia. Brick, limestone, concrete, steel, 3 stories and basement. Work contemplated. Sketches drawn.

Eaglesville Sanitarium, Eaglesville, Pa. Owners, Eaglesville Sanitarium, care of Jewish Federation, Philadelphia. Additional buildings. Work contemplated. Architect not selected.

Mill, Spring City, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Schuylkill Valley Mills, care of Mr. Meyer, Apex Hosiery Mills, Fifth and Luzerne streets, Philadelphia. Brick, steel, concrete, 3 stories and basement, 100x90 feet, composition roof, cement floors, dumb waiters, steam heat, electric light, rolled steel sash, sprinkler system. Architect will be ready for bids in two weeks.

Sunday School Building, Scranton, Pa., $200,000. Architect, Albert N. Dobbins, 1709 Arch street, Philadelphia. Owners, Elm Park Methodist Episcopal Church, Rev. W. M. M. Gray, Scranton, Pa. Stone, 3 stories and ground floors. Plans in progress.

Apartment House, York and Ashbourne roads, Elkins Park, Pa. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owners, Pearl Improvement Corp., H. Pearl, president, 625 South Sixty-third street, Philadelphia. Brick, steel, 4 stories and basement, 268x172 feet (80 apartments), slag roof, hardwood, composition, soundproof floors, 2 elevators, roof ventilator, kitchen equipment, landscaping, waterproofing and dampproofing, architectural terra cotta, flagstone and cast-stone, vapor heat, electric light, metal lath, tile and marble work, fire and hollow metal doors, ornamental iron work, Anaconda brass pipe. Architect and owners taking sub-bids.

Store and Apartment (add. and alts.), South Queen street, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Bard-Will Co., Inc., 118 South Queen street, Lancaster, Pa. Brick, 3 stories, 25x80 feet, built-up roof, hardwood floors, heating extension, electric light, plate glass, copper work. Plans in progress.

Bleaching Building and Finishing Building, Second street, Clayton and Trainor, Chester, Pa. Engineers, Heckman & Le Maister, Bellvue Court Building, Philadelphia. Owners, Chester Lace Mills, Chester, Pa. Reinforced concrete, brick, steel, 3 stories, 2 stories and basement, 134x56 feet, 84x100 feet, Barrett Specification and asphalt shingle roof, pine and cement floors, elevators, safety treads, roof ventilators, plumbing, Truscon waterproofing, architectural terra cotta, ornamental iron work, brass pipe, iron stairs, bond, fire and steel doors, copper skylights, rolled steel sash, area gratings, sprinkler system, dumb waiters, metal partitions, wrought iron pipe, steam heat, electric light. Architects taking bids due February 1st.

Y. M. C. A. Building, Bradford, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, care of Ralph George, Bradford, Pa. Brick, steel, 3 stories, 63x90 feet, built-up roof, linoleum floors, hollow tile, dumb elevators, cut stone, iron stairs, fire doors, steel skylights, tile work, metal lath, steam heat, electric light. Architects taking bids due February 1st.

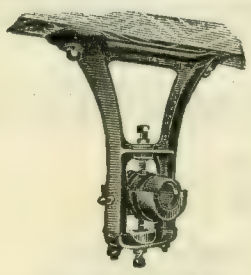
Store and Apartment (alts. and add.), Byberry road and Bustleton road, Somerton, Pa. Architect, Christian H. Fries, Drexel Building, Philadelphia. Owner, Charles H. Heyer, Bustleton, Pa. Brick, stucco, 3 stories, 9x17 feet, general alterations, hot water heat, oil burning, electric light, new fire tower, electric fixtures, composition work, plumbing, asbestos tile roof, changing partitions, bank partitions, plate glass, flush bulks, metal partitions, vault doors and lining. Architect taking bids.

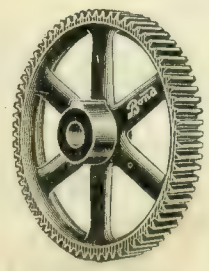
Convent (alts. and add.), Ninth and Walnut streets, Reading, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Paul's Roman Catholic Church, Rev. Hammeke, 151 North Ninth street, Reading, Pa. Brick, 4 stories, 24 feet 6 inches x 16 feet, 15x9 feet, composition and asbestos shingle roof, pine floors, steam heat, electric light, tile work, iron stairs. Architect taking bids due February 1st.

Memorial Library, Lancaster pike and Bryn Mawr avenue, Bryn Mawr, Pa. Architect, Roberts Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owners, Bryn Mawr War Memorial, Community House, on premises. Stone, limestone, 1 story and basement, 69x30 feet, 19x23 feet, slate roof, cement and oak floors. Architect taking bids due January 28th.

Residence, Merion, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, S. F. Scattergood, 6048 Chestnut street, Philadelphia. Stone, brick, cut stone, 2½ stories, 45x77 feet, variegated slate roof, oak, pine floors, plumbing, hot water heat, electric light, tile and marble work, limestone. Architects taking bids due January 28th.

Bank Building, Norristown, Pa. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Owners, Montgomery Trust Co., J. Aubrey Anderson, Norristown, Pa. Brick, steel, limestone, concrete, 7 stories, 30x200 feet. Plans in progress.


HANGERS


GEARS

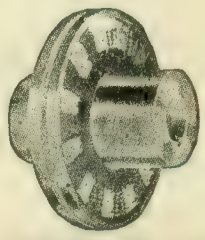
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BELTING


COUPLINGS

Church Superstructure, West Conshohocken, Pa. Architects, H. Rex Stackhouse and D. W. Donohue, 1120 Locust street, Philadelphia. Owners, Ss. Cosmas and Damian Italian Roman Catholic Church, Rev. Nichola Coscia, 209 West Sixth avenue, West Conshohocken, Pa. Stone, 1 story, 60x100 feet, slate roof, vapor heat, electric light, marble work. Plans in progress.

Residences (6), Llanerch, Pa., $12,500 each. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owner, Vincent D'Ambrosia, Eighth and Fitzwater streets, Philadelphia. Stone, stucco, hot water heat, electric light, slate roof, hardwood floors, tile work. Plans in progress.

Garage, 613 North Seventh street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, A. Krause, care of architect. Semi-fireproof, steel, brick, 3 stories, 26x98 feet, built-up roof, concrete and hardwood floors, elevators, steam heat, fire doors, electric light, steel sash. Plans in progress.

Hotel, Spruce street, Scranton, Pa. Architect, private plans. Owners, United Hotel Corporation, 25 West Forty-fifth street, New York. Work contemplated.

Theatre, North Washington avenue, Scranton, Pa. Architect, private plans. Owners, Sam S. and Lee Shubert, Inc., 225 West Forty-fourth street, New York. Work contemplated.

Residence and Garage, Beverly Hills, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Dr. Drumball, 112 South Sixtieth street, Philadelphia. Stone, stucco, 2½ stories, 25x40 feet, wing 18x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Ready for bids in two weeks.

Junior High School (add.), Ardmore, Pa., $300,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion Township School Board, Ardmore, Pa. Stone, 3 stories and basement. Plans about completed. Will be ready for bidders January 22nd. Bids due February 5th.

School Building, Steelton, Pa., $100,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, St. Mary's Croatian School, Rev. Ambrose Sirca, 815 South Second street, Steelton, Pa. Structural steel, brick and stone, 2 stories and basement, 18x82 feet, slag roof, oak floors, tile work, electric work, glass, plumbing, blackboards, vapor vacuum oil burner heating. Preliminary plans in progress.

School, Plymouth Township, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Plymouth Township School Board, care of architect. Brick, 2 stories, 4 rooms, slag roof, pine floors, vapor heat, electric light. Plans in progress.

Plant, Chester, Pa. Architect, Albert Kahn, Detroit, Mich. Owners, Ford Motor Co., Detroit, Mich. Assembly building, brick, concrete, steel, 1 story and 2 stories, 680x453 feet, pump house, brick, concrete, steel 1 story, 41x17 feet, car delivery building, brick, concrete and steel, 1 story, 160x64 feet, alterations to fabricating shop, oil house, brick, concrete steel, 1 story, 113x62 feet, power house, 1 story and basement, 63x69 feet, concrete brick, steel, cut stone, reinforced concrete tunnel (steel sash, structural steel, plumbing, heating, electric, sprinkler system, separate contracts), metal lath, tile and marble work, rolled steel sash, iron stairs, ornamental iron work, concrete composition built-up roof (asphalt), concrete and wood block floors, roof ventilators, steel stack, terrazzo work, wood piles, rubber tile floors, linoleum, carpentry and mill work, plastering, painting and glazing. Architect taking bids.

Bank and Office Building, Easton, Pa. Architects, Hoggson Brothers, 485 Fifth avenue, New York. Engineer, Clyde Place, 70 East Forty-fifth street, New York. Owners, First National Bank, Mr. Snyder, Easton, Pa. Brick and cut stone, 9 stories, 50x100 feet. Plans in progress. Architects will be ready for sub-bids about January 25th.

Club House (alts. and add.), Paoli, Pa. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owner, care of A. Ross Crane, Medical Arts Building, Philadelphia. General alterations and additions to club building. Plans completed. Ready for bids.

Laboratory Building, near Enola, Cumberland County, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Commonwealth of Pennsylvania, Department of Agriculture, Bureau of Animal Industry, Mr. Willit, Harrisburg, Pa. Fireproof construction. Too early for details. Preliminary plans in progress.

Store and Apartment (add. and alts.), Mt. Clair and Summit streets, Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, William Gross, 83 East Third street, Bethlehem, Pa. Brick, 3 stories, 45x73 feet, pine floors, heating extension, electric light. Plans in progress.

School, West Pittston, Pa. Architects, Mack, Sahm & Foster, Coal Exchange Building, Wilkes-Barre. Owners, West Pittston School District, Paul Bevan, West Pittston, Pa. Brick, stone, steel, 2 stories and basement, 60x250 feet, built-up roof, maple floors, safety treads, roof ventilators, metal weather strip, waterproofing and dampproofing, iron stairs, bond, fire doors, steel skylights, tile work, metal lath (heating, plumbing and electric separate). Owners will be ready for bids February 1st.

Hospital (add.), Wilkes-Barre, Pa. Architect, T. A. Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owners, City of Wilkes-Barre, E. E. Matthews, superintendent, Wilkes-Barre. Fireproof, 7 stories, 42x85 feet, slag roof, terrazzo floors, hollow tile, roof ventilators, waterproofing and dampproofing, iron stairs, fire doors, tile and marble, metal lath, heating extension, electric light. Architect will be ready for bids February 1st.

Pennsylvania Contracts Awarded

Theatre and Apartment, Chester, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owner, name withheld. Brick, cut stone, steel, 4 stories and basement, 150x140 feet, slag roof, oak and pine floors, hollow tile, elevators, painting and glazing, plumbing, electric light, metal lath, tile, marble and terrazzo work, galvanized iron skylights, iron stairs, ornamental iron work, bluestone, macite partitions. Contract awarded to J. P. Hallahan, 2315 Walnut street, Philadelphia.

Church and Sunday School, Easton, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Evangelical Church, Rev. E. E. M. Smith, Easton, Pa. Stone, brick, steel, 1 and 3 stories, 40x120 feet, slate and composition roof, yellow pine floors, cinder block, vapor heat, electric light. Contract awarded to Jacob Foose, Front and Emerald streets, Harrisburg, Pa.

Factory, Shillington, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Fedden Bros. Co., 4283 Park avenue,

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New York. Fireproof, saw tooth construction, 1 story and basement, 95x160 feet, slag roof, hollow tile, electric light, metal lath, rolled steel sash, fire doors. Contract awarded to L. H. Focht & Son, Baer Building, Reading, Pa.

Store Building, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, A. S. Groff, 111 East King street, Lancaster, Pa. Steel, brick, hollow tile, 2 stories and basement, 30x170 feet, built-up roof, pine floors, roof ventilators, cast stone, ornamental iron work, steel skylights, tile and marble (heating and plumbing reserved), electric light. Contract awarded to Benjamin Hull, Lancaster, Pa.

Plant, Oaks, Pa. Architects, Osborne Engr. Co., Cleveland, Ohio. Owners, Philadelphia Rubber Works, Akron, Ohio. Reinforced concrete, brick, steel, built-up composition roof, cement and tile roof, concrete floors, metal lath, rolled steel sash, safety treads, ornamental iron work, iron stairs, concrete tanks, 34x32 feet, high concrete trestle 400 feet long, septic tank 20 feet diameter, concrete, railroad tracks, roadways, steel buildings (2), painting, wrought iron pipe, plate glass, sheet piling, gratings over water intake, crane runways, Ironite waterproofing, R. I. W. waterproofing, metal corner beads, steel toilet partitions, debeading and chopping building, 1 story, 70x100 feet, washer and grinder, 1 story, 80x80 feet, washer and devulcanizing building, 1 story, 160x90 feet, tank house, 1 story, 60x60 feet, dry storage, 1 story, 80x100 feet drier building 1 story, 80x50 feet, mill building, 1 story, 220x50 feet, caustic house, 1 story, 48x22 feet, boiler house, 2 stories, 50x90 feet, mechanics' building, 1 story, 60x200 feet, gate house, 1 story, 36x38 feet, pigment storage, 65x35 feet, pump house, 28x28 feet. Contract awarded William Steele & Son, 219 North Broad street, Philadelphia.

Locker Buildings alts.), Bryn Mawr, Pa.. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Philadelphia Country Club, Bala, Pa. Brick, cut stone, stone, stucco, tile roof, linoleum and cement floors, painting and glazing, hardware, tile and marble work, ornamental iron work, concrete work, carpentry and mill work, plastering, plumbing, hardware, iron work, tile work. Contract awarded C. C. Eddleman, 1627 Sansom street, Philadelphia.

New Roads, Parking Space and Grading, etc., Bryn Mawr, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Philadelphia Country Club, Bala, Pa. Contract awarded to E. J. Heddon, Finance Building, Philadelphia.

Servants' Quarters (add.), Bryn Mawr, Pa. Architect, Lewis S. Adams, 1703 Chestnut street, Philadelphia. Owner, George F. Huff, Bryn Mawr, Pa. Stone, 1 story, 20x25 feet. Contract awarded to C. C. Eddleman, 1627 Sansom street, Philadelphia.

Residence (alts. and add.), Radnor, Pa. Architect, N. R. Dalton, Radnor, Pa. Owner, David H. Carstairs, on premises. Alterations to hot water heat and electric light, excavations, masonry, brick work, stone work, stair work, painting and glazing. Contract awarded S. A. Sims, 2315 Walnut street, Philadelphia.

Hotel, Lobby and Coffee Shop (alts.), Fifth and Court streets, Reading, Pa. Architect, H. R. Heckman, 702 Baer Building, Reading, Pa. Owner, D. H. Contos, Sixth and Penn streets, Reading, Pa. Marble work, metal bulks, composition floors. Contract awarded to L. H. Focht & Son, Baer Building, Reading, Pa.

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New Jersey Construction News

Power House, Camden, N. J. Architect, F. F. Kauffman, 13 North Thirteenth street, Philadelphia. Owners, West Jersey Homeopathic Hospital, Camden, N. J. Cement block, 1 story, 50x40 feet, built-up roof, cement floors, rolled steel doors. Architect taking bids due January 20th.

Ice Storage Building and Delivery Room, Pleasantville, N. J. Architect, C. Leslie Weir, 41 East Forty-second street, New York City. Owners, American Ice Co., W. Lee, 121 North Broad street, Philadelphia. Reinforced concrete, asbestos, shingle, 2 stories, 112x40 feet, Barrett specification roof, cement floors, painting, plumbing, roof ventilators, shoring, bond, ornamental iron work, cork insulation, wrought iron and steel pipe. Owners taking bids due January 21st.

Residence, 1238 Cambridge street, Camden, N. J., $3,500. Architect, private plans. Owner, William McCarron, 805 Howard street, Camden, N. J. Frame, 1 story, 24x35 feet, slate surface roof, pine floors, hot water heat, electric light. Permit granted.

Building (add.), Northeast Corner Louis and Sycamore streets, Camden, N. J., $6,500. Architect, private plans. Owner, G. J. Ratcliffe, 1130 Haddon avenue, Camden, N. J. Block and brick, second story add., 40x100 feet, asphalt roof. Permit granted.

Factory, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, care of architect. Brick, steel, 1 story, 60x128 feet, slag roof, wood and concrete floors, steam heat, electric light, steel sash, fire doors, roof ventilators, waterproofing and dampproofing. Plans in progress.

Professional Building, Elizabeth, N. J. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owner, Mrs. Mary M. Martin, care of architect. Brick, steel, reinforced concrete, 5 stories, L shape, 150x30x50 feet, built-up roof, cement floors, steam heat, electric light, tile and marble work. Plans in progress. Ready for bids in two weeks.

Convention Hall, Theatre and Pier, Asbury Park, N. J. Owners, Board of Commissioners of Asbury Park, N. J., A. G. King, City Clerk, Asbury Park, N. J. Owners desire architects to submit tentative plans and sketches on above buildings, due February 15th.

Attendants' Building, Psychopathic Building, Doctors' Residence, Nurses' Residence and Convalescent Building, Trenton, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, New Jersey State Hospital for Insane, Trenton, N. J. Architects taking bids due February 8th.

Maternity Unit, Trenton, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, Mercer Hospital, 446 Bellevue avenue, Trenton, N. J. Fireproof, 3 stories, 40x96 feet, asbestos built-up roof, concrete floors, hollow tile, elevators, cast stone, steam heat, electric light, metal lath, tile work, rolled steel sash. Architects taking bids due January 25th.

Office Building, Paulsboro, N. J. Architect, private plans. Owners, Vacuum Oil Co., Paulsboro, N. J. Glazed hollow tile, 1 story, 57x20 feet, built-up roof, maple floor, electric light, sanymetal partitions. Owners taking bids due as soon as possible.

Training School, School for Feeble Minded, Totowa, N. J. Architect, Alan B. Mills, Division of Architecture, Trenton, N. J. Owners, Department of Institutions and Agencies, Newark, N. J. Lowest bidders: Charles J. Smith Const. Co., 202 Academy street, Trenton, N. J., Bid No. 1, $1,173,834; Bid No. 2, $118,404. G. De Kimpe, 30 Church street, New York City, Bid No. 1, $1,324,000; Bid No. 2, $105,000. Carleton Company, 151 West Forty-second street, New York City, Bid No. 1, $1,418,875; Bid No. 2, $122,736.

Grade School, Somerville, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owners, Board of Education of Bridgewater Township, Somerville, N. J. Lowest bidders: Gilbert Stout, Kingston, N. J., $55,314. Plumbing, Eling Brothers, Somerville, N. J., $2,960. Heating, Burns, Lane & Richardson, New Brunswick, $7,543. Electric, Smith Electric Co., Somerville, N. J., $1,097. Will be awarded to low bidders.

Church and Sunday School, Wildwood, N. J. Architects, H. Rex Stackhouse and W. W. Donohue, 1120 Locust street, Philadelphia. Owners, Holy Trinity Lutheran Church, Wildwood, N. J. Preliminary plans in progress. (Note owner.)

Court House Addition, Camden, N. J. Owners, Board of Chosen Freeholders, Camden, N. J. Work contemplated.

High School (add.), Wildwood, N. J. Owners, Board of Education, Wildwood, N. J. Work contemplated.

Apartment House, South Providence avenue, Atlantic City, N. J. Architect, A. F. Amodio, 2304 Atlantic avenue, Atlantic City. Owner, Stanley Baker, Kenapac Pharmacy, Kentucky and Pacific avenues, Atlantic City, N. J. Fireproof, 8 stories, 65x30 feet, Barrett roof, maple and linoleum floors, hollow tile, (2) elevators, safety treads, roof ventilators, waterproofing and dampproofing, ornamental iron work, iron stairs, fire doors, steel sash and skylights, tile and marble, metal lath, Warren Webster heat, electric light, Murphy or White Door Beds. Plans in progress.

Residence, 108 South Texas avenue, Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City. Owner, name withheld. Brick, 2 stories, 21x72 feet, slag roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Hotel (add. and alts.), 908 Pacific avenue, Atlantic City, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owners, Mt. Vernon Hotel, care of architect. Brick, steel, 5 stories, 50x100 feet, hardwood floors, hollow tile, electric light, metal lath, tile and marble. Plans in progress.

Residences (10), West Berlin, N. J., $6,000 each. Architects, Stetler & Deysler, Jefferson Building, Philadelphia. Owner, Vincent D'Ambrosia, Eighth and Fitzwater streets, Philadelphia. Frame, 2 stories, shingle roof, pine floors, electric light. Plans in progress.

Apartment House (32-family), Merchantville, N. J. Architects Edwards & Green, 548 Federal street, Camden, N. . Owners, Greenleigh Apartments, care of architects. Brick, steel, stucco, 3 stories, 135x93 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble. Owners will take sub-bids in ten days.

Duplex House, 20 North New Jersey avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Harry Beckerman, on premises. Brick, 2½ stories, 46x68 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will take bids.

Dante Hall (Community Hall and School), Mississippi avenue, Atlantic City, N. J. Architect, A. F. Amodio, 309 Commercial Building, Atlantic City. Owners, St. Michael's Church, Rev. J. Quarrenber, Atlantic City. Steel, limestone, granite, 3 stories, 42x111 feet, Barrett roof, maple floors, safety treads, metal weather strip, waterproofing and dampproofing, ornamental iron, iron stairs, bond, steel skylights, tile and marble work, metal lath, Warren-Webster heat, electric light. Architect ready for bids due February 1st.

Grade School, Colwick, N. J. Architects,

Edwards & Green, 548 Federal street, Camden, N. J. Owners, Delaware Township School Board, Thomas Beidler, president, Merchantville, N. J. Brick, stone, 70x112 feet. Plans in progress.

Schools (2), Berlin and West Berlin, N. J. Architect, A. H. Moses, Camden, N. J. Owners, School Board of Berlin, N. J. Brick, 2 stories. Preliminary plans in progress.

Emergency Hospital, Hatfield, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Community House, Loving Service Association, care of architect. Brick, steel, stone, 2 stories, 37x65 feet. Preliminary plans in progress.

School (add.), Brooklawn, Camden County, N. J. Architects, H. O. & C. A. Ziegler, 1012 Walnut street, Philadelphia. Owners, School Board of Brooklawn, R. K. George, Brooklawn, N. J. Low bidders: Wills Bill Co., 1706 Sansom street, Philadelphia, $96,340; Fred Lange & Son, Audubon, N. J., $101,261; Deckman Power & Heating Co., Camden, N. J. (heating and ventilating), $10,521. Plumbing, Harry Knecht, Camden, N. J., $5,440. Electric, Enterprise Electric Co., 239 South Tenth street, Philadelphia, $2,608. All bids rejected.

Office Building, Fifth and Cooper streets, Camden, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owner's name withheld. Brick, stone, steel, concrete, limestone, terra cotta. Work contemplted. Sketches drawn. Too early for details.

New Jersey Contracts Awarded

Building, Cooper and Broadway, Camden, N. J. Architect, Ralph Benckert, Bellevue Court Building, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1432 South Penn Square, Philadelphia, Horn & Hardart, Camden, N. J. Brick, steel, concrete, limestone, granite, 2 stories and basement, 115x40 feet, slag roof, cement and pine floors, painting and glazing, metal lath, tile, marble and terrazzo work, hollow metal doors, bond, iron stairs, ornamental iron work, shoring, painting and glazing, sanymetal partitions. Contract awarded Smith-Hardican Co., 1809 Callowhill street, Philadelphia. Heating, plumbing and ventilating, William M. Anderson, 609 Schuylkill avenue. Electric, Keller-Pike Co., 1213 Race street, Philadelphia.

Building, 219-25 Mickle street, Camden, N. J., $9,000. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners. C. B. Edwards Electric Co., 130 Federal street, Camden. Brick, 1 story, 30x46 feet, slag roof, electric lighting. Contract awarded to Carl E. Widell, Woodlynne, N. J.

Residence, 3318 Mitchell street, Camden, N. J., $7,500. Architect, private plans. Owner, Michele De Mosi, Camden, N. J. Brick, stucco, 2 stories, 22x36 feet, rubberoid roof, hot water heat, electric light, hardwood and pine floors. Contract awarded to Adam Stephan, 3309 Pelham Place, Camden, N. J.

Factory, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Kramer Auto Radiator Works, care of architect. Steel, brick, 1 story, 108x120 feet, composition roof, concrete floors, roof ventilators, waterproofing and dampproofing, skylights, steel sash, metal lath, steam heat, electric light. Contract awarded to Angelo Tuozzo & Co., Trenton, N. J.

Children's Quarters, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, West Jersey Homeopathic Hospital, Dr. C. P. Hedden, Camden, N. J. Brick, cut stone, reinforced concrete, steel, four stories and basement, 54x38 feet, wing 60x37 feet, slag roof, composition, linoleum and cement floors (steam heat, electric light, plumbing separate), metal lath, tile and marble, elevators, painting, glazing, metal ceilings, ornamental iron. Contract awarded to T. M. Gibbs Const. Co., Corn Exchange Building, Philadelphia; plumbing to W. J. Kelly, 675 Ferry avenue, Camden, N. J.; heating to Enterprise Heating Co., 131 Federal street, Camden, N. J.; electric to R. C. Strang, 214 South Seventh street, Philadelphia; refrigeration to J. R. Livezey Co., Twenty-second and Glenwood avenue, Philadelphia.

Compounding Building, Paulsboro, N. J. Architect, private plans. Owners, Vacuum Oil Co., Paulsboro, N. J. Brick, steel, three stories, 80x52 feet, slag roof, cement floors, rolled steel sash. Contract awarded to White Construction Co., Jefferson Building, Philadelphia.

Bungalow, Merchantville, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Harry Soog, Merchantville, N. J. Brick, 2½ stories, 37x56 feet, asbestos shingle roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to Joseph Strang, Haddon Heights, N. J.

Garage, Camden, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, M. & C. Cont. Corp., Camden, N. J. Contract awarded to George W. Shaner & Son, Palmyra, N. J.

Steel Superstructure, New Jersey. Owners, Joint Commission for Elimination of Toll Bridges, Louis Focht, Superintendent and Engineer, State House, Trenton, N. J. Steel superstructure on existing piers and abutments of bridge across Delaware River between Centre Bridge, Bucks County, Pa., and Borough of Stockton, N. J. Contract awarded to S. S. Thompson, Red Bank, N. J., $120,500.

Miscellaneous Construction News

Church, Sunday School and Parsonage, Hagerstown, Md. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Paul's United Brethren Church, Rev. F. Berry Plummer, 106 East Franklin street, Hagerstown, Md. Plans in progress.

Church, Washington, D. C. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lutheran Church of the Atonement, Rev. H. E. Snyder, 2419 First street, N. W., Washington, D. C. Stone. Preliminary plans in progress.

Residence, Broome street near Tenth, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, name withheld. Stone, brick, marble trim, 2½ stories, 35x5 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble work. Plans in progress.

Residence, 2803 Franklin street, Wilmington, Del., $6,500. Architect, private plans. Owner, Charles Brice, 2801 Franklin street, Wilmington, Del. Cinder block, 2 stories, 18x30 feet, slate roof, hardwood and pine floors, hto water heat, electric light. Permit granted.

New Home for Aged and Infirm, location withheld. Owners, New Home for Aged and Infirm, care of Jewish Federation. Brick, stone, steel, 3 stories and basement. Work contemplated. Architect, not yet selected.

Dormitories (4), Concord, N. H. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, St. Paul's School, Concord, N. H. Brick, reinforced concrete, steel, 3 stories, 32x200 feet each, central heat, electric light, slate roof, cement and wood floors, truck lifts, rolled steel sash. Sketches in progress.

Telephone Building, Capitol and Pierce streets, Washington, D. C. Architects, McKenzie, Voorhees & Gmelin, 1343 H street, N. W., Washington. Owners, Chesapeake & Potomac Telephone Co. of New York, 723 Thirteenth street, Washington, D. C. Brick, cut stone, reinforced concrete, steel, granite, 4 stories and basement, 223x229 feet, slag roof, cement floors, hollow tile, safety treads, shoring, waterproofing, ornamental iron work, iron stairs, bond, hollow metal doors and sash, rolled steel skylights, marble and terrazzo work, metal lath, rolled steel shutters, area gratings, metal toilet partitions. Architects taking bids due January 22nd at noon.

Miscellaneous Contracts Awarded

Garage and Apartment (add. and alts.), 2210 Shallcross street, Wilmington, Del., $3,500. Architect, private plans. Owner, George A. Elliott, care of builder. Brick, 2 stories, 9x20 feet, slate and tin roof, pine floors, heating extension, electric light. Contract awarded to Charles Eckman, 821 Orange street, Wilmington.

Residence, Charlotte, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, Charles E. Lamberth, Charlotte, N. C. Hollow tile, brick, stucco, 2½ stories and basement, 56x54 feet, wing 26x32 feet (plumbing, heating, electric reserved), tile roof, oak and pine floors, metal lath, tile work, ornamental iron work. Contract awarded J. A.. Gardner, Charlotte, N. C.

Tower Building and alts. to Hotel Cleveland, Cleveland, Ohio, $15,000,000. Architects, Graham, Anderson, Probst & White, Chicago Ill. Owners Cleveland Union Terminal Co. & Cleveland Terminal Building, Cleveland, O. Contract awarded to Geo. A. Fuller Co., who is taking sub-bids. Plans may be seen at the office Hotel Cleveland, Cleveland, Ohio, bids due January 19th, and at office, 949 Broadway, New York, bids due January 16. All lines, including mechanical equipment.

(Continued from page 36)

out collapse, though the slack in certain types of facilities in that city has not yet been fully taken up.

The Rental Market

The condition of the rental market is but a reflection of the extent of over-building or under-building and the presence or absence of vacancies. In the last few weeks we have been told by several persons that rents were on the toboggan. Let us first see what the actual facts are. The general rent or shelter index of the United States Bureau of Labor statistics has fallen slightly since last December—or from 168.2 to 167.4. In twenty out of thirty-two cities studied by the Bureau, decreases of varying amounts were reported for the current year. In the June, 1925, report of the National Association of Real Estate Boards, eleven per cent. showed residential rents rising compared with ten per cent. a year ago, while 19 per cent. reported falling rents and 70 per cent. stationary rents as compared with June, 1924, figures of 16 and 74 per cent. respectively. As for business rents,

the last figures of the Board were for December, 1924, when the situation was as follows:

	Dec. 1924	Nov. 1923
Falling	8	6
Rising	45	57
Stationary	47	37

This side of the story would not be complete without a reference to the concessions which have been granted by speculative builders anxious to fill up their buildings and establish a high gross rental for sales purposes.

But the story would be one-sided unless due attention were paid to the following considerations. In the first place, it is wholly natural that the first turn of the tide in rentals should strike us with exaggerated significance. We recall that during the war when prices were climbing at an alarming rate, house rents rose only slowly. When in 1920 the Department of Labor's index of the cost of living had reached 210 and its wholesale price index 250, the house rent index had not yet attained 160. In the ensuing depression house rents remained practically stable in the face of a headlong tumble in other prices and then in 1922 began again to rise, this time much more rapidly than whoelsale or retail prices generally. It would be only natural for property owners in their effort to overtake the general price level to push their rentals somewhat too high and only human nature for us to exaggerate the significance of the first evidence that the peak had been reached and that a slight corrective reaction had occurred. It is also only natural for weak owners of property to become somewhat panicky and for tenants to become too enthusiastic upon the first evidence of vacancies. We have been living in an entirely abnormal market—a seller's market, a market in which demand constantly and uniformly exceeded supply.

Reasonable Vacancy Normal and Desirable

This brings me to my second point that a moderate percentage of vacancy is not only a normal but also a desirable and necessary phenomenon. Such a vacancy is necessary (1) to allow some freedom of choice and of movement without which the tenant is at the mercy of the landlord; (2) to compensate for the inevitable, considerable error in the distribution of facilities by tpyes, sizes, price groups and locations; (3) to allow for the gradual obsolescence of buildings and the shifting of districts; and (4) to take care of the factor of continuous growth in our dynamic American cities. In residential facilities, the normal vacancy is at least 5 per cent. and any reputable builder or lending house will normally make allowance for a vacancy of at least 10 per cent. and possibly up to 20 or more per cent. (depending on the type and location of structure), before going ahead with a building or financing project. Incidentally, I may mention that a recent exhaustive survey of every block in the two large sections of Chicago which have sometimes been reported to be largely over-built disclosed a vacancy of about 9 per cent. in the one case and about 10 per cent. in the other, with any appreciable surplus confined to two or three sizes of apartment units.

In the third place it will usually be found that most of the vacancies which do exist today are in locations which are not yet established as desirable or in buildings which are, so to speak, on the margin of obsolescence, either because of age and inadequate upkeep or inefficient planning or cheap construction or indifferent management. In many casas these buildings are vacant because they are obsolete or practically so. Their present condition represents an inevitable readjustment to changing economic conditions.

And finally, it is probably well to note that particularly in office buildings, a better control of the rental market is being exercised. In the fast few years a new profession has sprung up, the profession of building management. The new group of building managers bring to their job a scientific point of view and somewhat of a research technique; they exchange experience and information not only to improve their operating technique but also to acquire an accurate knowledge of supply and demand conditions in their market; they know their overhead and their operating costs; and they have learned that the inelasticity of demand for office space is such that cutting rates contributes little to the appearance of their balance sheets. Their objective is to operate our great modern buildings in such a way as to produce a reasonable return upon the investment made by their owners. An instance of their comparative success will doubtless be cited by Colonel Ayers who comes from Cleveland where the office vacancy for the last year or two has run around 18 or 20 per cent. without that demoralization of rents which might have been expected.

Outside of the effect of local overbuilding and of the cyclical fluctuations of building and general business, I cannot see adequate reason for expecting any material decline in the level of rents.

Sources of Building Demand

If building is to continue on a high level for some time, from what quarters will the demand come?

While the National Association of Real Estate Boards reported some instances of over-building, its report also indicated the persistence of shortages in some sections. Of the 225 cities studied, 32 per cent. reported shortages of single family houses, 29 per cent. of apartment houses, and 25 per cent. of business buildings. These figures represent a considerable drop from the numbers reporting a shortage in 1924. They indicate that considerable progress had been made in eliminating the accumulated deficit and further progress has of course been made in the last few months. Probably, however, there will still remain at the end of this year a number of cities where the demand for building to wipe out shortages of certain classes of facilities will be added to the normal heavy demand for construction to take care of replacements and annual population growth. Almost universally, demand seems still to be ahead of supply in so far as residential facilities for families of low and moderate incomes are concerned.

The special situation in Florida has already been discussed. In somewhat similar case we find the farms and the rural districts of almost the entire country. The building boom of the last few years has been largely confined to the cities and particularly to the larger cities. In the smaller towns and upon the farms there must still exist a large backlog of demand for repairs, replacements and extensions, which must sooner or later inflate the annual increment of building demand. Its influence has already been felt in those areas which have recently felt the stimulus of the increasing purchasing power of the farmers. In the Ninth Federal Reserve District, for instance, a very marked revival of building has occurred in the smaller cities. In nine out of fifteen small cities reporting to the Federal Reserve Bank of Minneapolis, permits issued during the first nine months of 1925 exceeded by 50 per cent. or more the volume for the corresponding part of 1924, while only two cities reported decreases.

(To be continued.)

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class Every copy reaches a live prospect.

Repitition tends to create habit, the more often we see, do or hear a thing, the quicker we are likely to be influenced by it. The consecutive appeal of a number of advertisements will develop certain memories and associations tending to overcome the natural habit of procrastination.—Making advertising pay.

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.

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ARCHITECTURAL IRON WORK
Quaker City Art Metal Works,
2445 N. Second St., Phila.
ARTESIAN WELLS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.
ARTISTS' AND ARCHITECTS' SUPPLIES.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Robbins, Chas. H., Co.....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
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Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
BOILER AND PIPE COVERINGS.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
BRICK.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
BRICK (Face, Common, Paving).
Ketcham, O. W. .....121 N. 18th St., Phila.
BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.
Joseph Rotornado.....4740 Milnor St., Phila.
BUILDING BLOCKS.
Victor Concrete Products Co.,
Primos Station, Del. Co., Pa.
BUILDERS' SUPPLIES.
Camden Materials Co....1345 Pine St., Camden, N. J.
Service Supply Corporation,
20th and Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CABINET WORK.
Huskey Mfg. Co. ..Columbia and Howard St., Phila.
CAST STONE
Vineland Architectural Cast Stone Works,
Vineland, N. J.
CEMENT.
Camden Materials Co....1345 Pine St.,Camden, N. J.
The Van Sciver Corporation.
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CEMENT WORK.
D'Lauro, John .....55 E. Mermaid Lane, Phila.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.Juniper and Cypress Sts., Phila.
COLD STORAGE (Insulation and Covering)
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
COLUMNS (Metal).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
CONCRETE SEWER PIPE.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.
CONCRETE WORK.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.. Juniper and Cypress Sts., Phila.
CONTRACTORS' EQUIPMENT
Devitt, Paul J. .....1101 S. 2nd St., Phila.
Lee T. Ward Co. .....617 Filbert St., Phila.
CORK FLOORING
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
CURTIS WOODWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.
DAILY BUILDING NEWS.
Building News Pub. Co. ...1530 Chestnut St., Phila.
DAMPPROOFING.
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger.....829 N. 3rd St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1505 Race St., Phila.
DOOR BEDS
Murphy Door Bed Co.....512 Bulletin Bldg., Phila.
DRAWING MATERIALS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F. Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
EXCAVATING.
Harsch, Wm. F. .....Narberth, Pa.
McCarrick Bros.....3240 N. Fox St., Phila.
Sanitary Engineering Co.....40 S. 52nd St., Phila.
FENCES.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Potts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St,. Phila.
FINANCING (BUILDING)
Commercial Advance Corp., 1011 Chestnut St., Phila.
Abe Kolsky .....9th & Walnut Sts., Phila.
Mortgage Extension Corp..1011 Chestnut St., Phila.
FIREPLACE EQUIPMENT.
F. R. Rosen.....5327 Market St., Phila.
FIREPROOFING.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
FLAG POLES.
J. E. Lingo & Son .....Camden, N. J.
FLOOR HARDENER.
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Concrete Waterproof Paint Co...829 N. 3rd St., Phila.
Truscon Laboratories.....1505 Race St., Phila.
FLOOR PLATES.
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.
FLUE LINING.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Cox, Abram, Stove Co., .Amer1 n and Dauphin Sts.
Fleck Bros. .....44 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.
GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.
GAS RANGES.
Abram Cox Stove Co.,
American and Dauphin Sts., Phila.
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F. R. Rosen.....5327 Market St., Phila.
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GRADING
Harsch, Wm. F. .....Narberth, Pa.
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John Meehan & Son.....916 W. Dakota St., Phila.
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Vineland, N. J.
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Cox, Abram, Stove Co.,
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Fleck Bros. Co. .....50 N. 5th St., Phila.
HOLLOW TILE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
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Ketcham, O. W. .....121 N. 18th St., Phila.
HOT WATER GENERATORS.
Edwin Elliot & Co. .....1011 Chestnut St., Phila.
INSURANCE.
Insurance Co. of North America,
1600 Arch St., Phila.
Philadelphia Fire & Marine Ins. Co.,
1711 Chestnut St., Phila.
Smith-Austermuhl Co. .....Camden, N. J.
IRON AND STEEL BARS AND PLATES.
DeCou, Richard.....11th and Noble Sts., Phila.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Thos. H. Livezey & Co.,
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LIGHT IRON CONSTRUCTION.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
LINOTILE.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
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Gillingham Co. ...Norris and Richmond Sts., Phila.
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1031 Commercial Trust Bldg., Phila.
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Phila. Meter Co. ....Real Estate Trust Bldg., Phila.
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Gillingham Co. ...Norris and Richmond Sts., Phila.
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Malia. Thomas .....226 W. Mentor St., Phila.

RADIATOR CABINETS.
Radiator Cabinet Co. .....Drexel Bldg., Phila.
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Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ....1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
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Thomson, Wm., Inc. .....64 N. 2nd St., Phila.
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Harsch, Wm. F.....Narberth, Pa.
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Brinkman Bros. .....2615 Frankford Ave., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.
ROOFING MATERIALS.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.
ROOFING SLATE.
Chapman Slate Co .....Bethlehem, Pa.
ROOFING TILE.
Ketcham, O. W. .....121 N. 18th St., Phila.
SAFETY GUARDS.
Potts, Horace T., & Co...Erie Ave. and D St., Phila.
SAND AND GRAVEL
Camden Materials Co....1345 Pine St., Camden, N. J.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
SCAFFOLDING.
Patent Scaffolding Co. .....2835 Bridge St., Phila.
SCREENS.
Malia, Thomas.....226 W. Mentor St., Phila.
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Stroudsburg Septic Tank Co..328 Chestnut St., Phila.
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Sanitary Engineering Co.....40 S. 52nd St., Phila.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.
SEWERAGE WORK.
Harsch, Wm. F. .....Narberth, Pa.
Sanitary Engineering Co.....40 S. 52nd St., Phila.
SEWER PIPE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
SHEETROCK (Wall Board).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.
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S. W. Cor. 22nd and Cambria Sts., Phila.
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McCarrick Bros. .....3138 N. 24th St., Phila.
STEAM SPECIALTIES.
Edwin Elliot & Co. .....1011 Chestnut St., Phila.
STONE.
St. Martin's Building Stone....55 E. Mermaid Lane.
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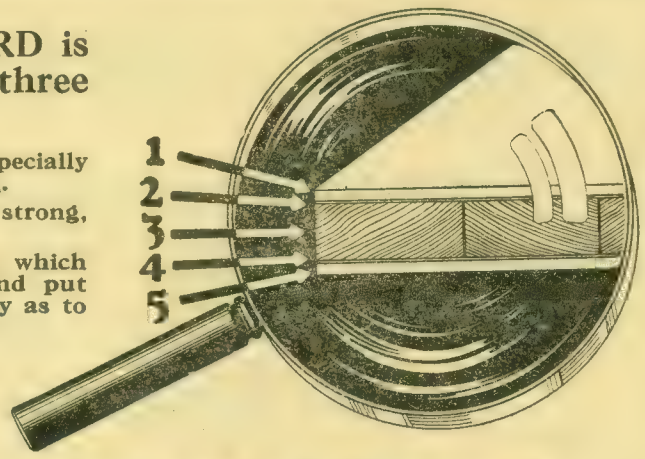
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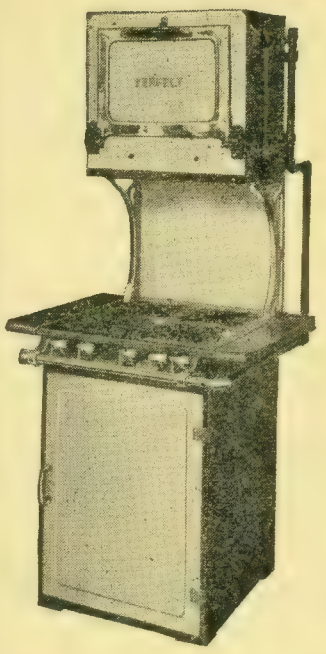
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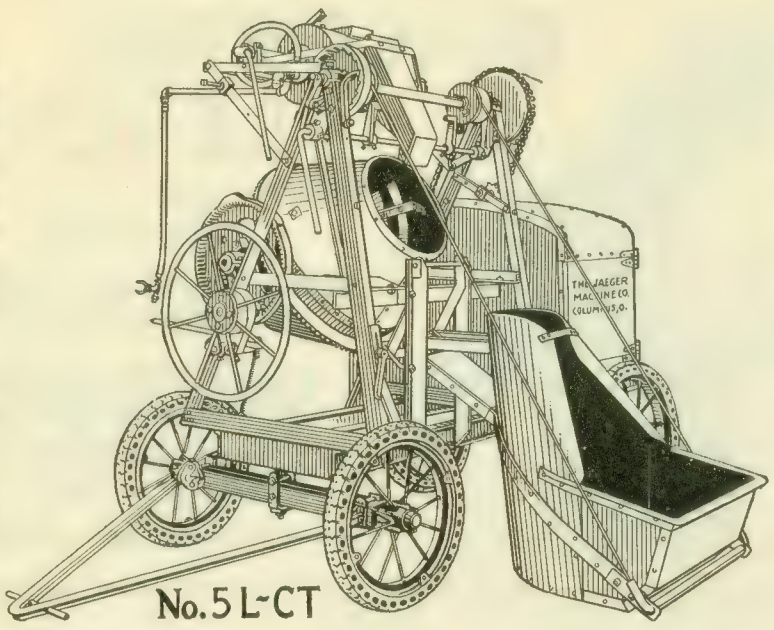
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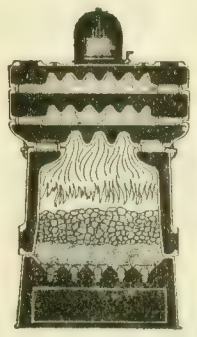
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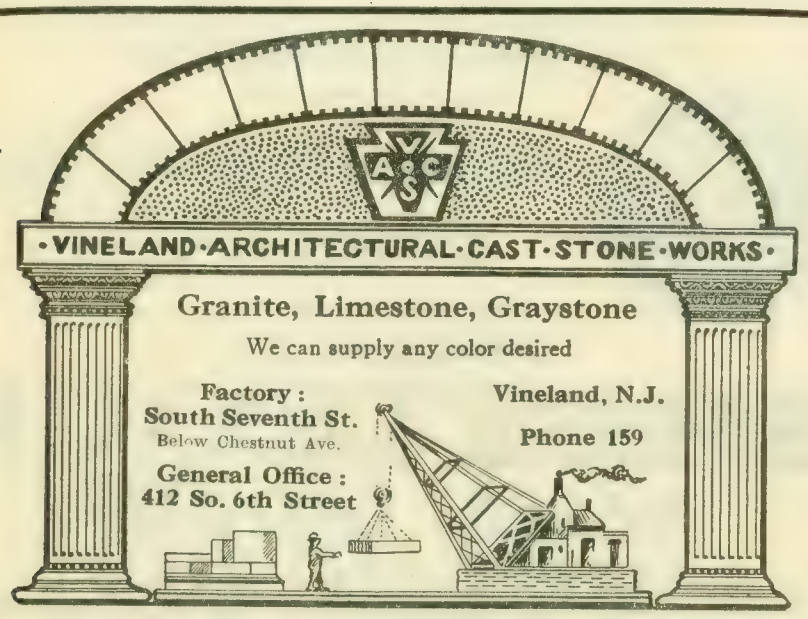
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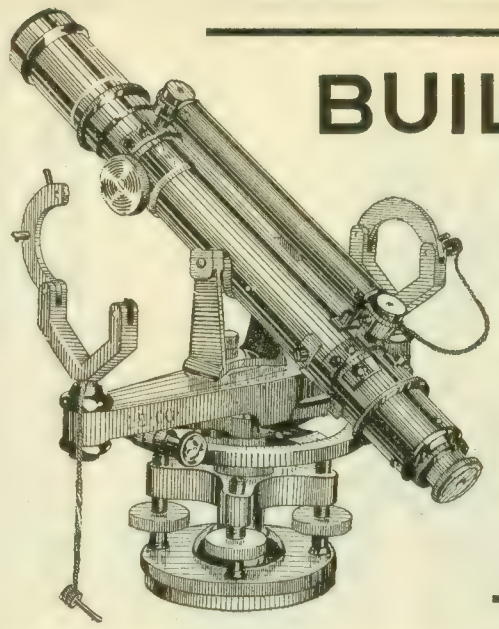
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

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January 27, 1926

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As The Editor Sees It

REAL ESTATE AND THE CONSTRUCTION INDUSTRY

(Address Delivered by W. C. Clark, Economist, S. W. Straus & Co., before the Seventh Annual Conference of the Harvard Committee on Economic Research, November 13, 1925.)

(Continued from issue of January 20)

Industrial Building Likely to Increase

Industrial building which since 1920 has been insignificant in amount should also show expansion during the next few months. It is of course notorious that plant capacity has been much in excess of current consumptive demand in several important basic industries, but we should not forget (1) that some of this surplus capacity has become obsolete in the last five or six years (witness the current controversy as to the theoretical capacity of the steel industry); (2) that the growth of this country tends to absorb very quickly a surplus of productive capacity (witness the fact that in the last five years we have added to our population an increment of people exceeding the total population of the whole of Canada which in 1920 had 3 ½ billion dollars invested in manufacturing plants); (3) that the great agricultural and foreign consuming markets for the products of American factories are just now beginning to emerge from serious depression into what we hope will be a prolonged period of reasonable prosperity; and (4) that the need for plant expansion had been or will be accentuated to some extent by such factors as the Pittsburgh plus decision, revision of freight rates, the growing use of electric power and the increasing industrialization of the South. Hence under the stimulus of good business, industrial replacements and extensions should take a more and more important place. The movement has already started. In September, the Dodge index of industrial construction reached a figure above normal for the first time in two years, jumping from 94 in August to 155 in September. October is also expected to show a high figure for this type of structure.

Commercial building will continue closely dependent upon the degree of business prosperity. While public utility construction has been heavy, the volume of contemplated work reported in recent months indicates a continuing heavy volume of demand. In spite of changing tax rates, municipal improvements will continue in heavy volume. In particular, the serious shortage of educational buildings has not been fully offset in most communities, while in some cities water supply and sewage disposal problems are beginning to press upon public attention.

All these accumulated demands are in addition to the huge normal volume of building needed to take care of replacements and annual population growth, but from this combined total should be deducted whatever of over-building has occurred in those sections and for those types of structure which have witnessed the most active operations in the last few years.

Some justification for the general tenor of these remarks seems at hand in the story of the record-breaking activity of 1925 and particularly of the last few months. In building permits issued, October registered an increase over the same month of 1924 amounting to almost 50 per cent. for the 25 leading cities and to 28 per cent. for all the 395 cities reporting to S. W. Straus & Co. Gains both from September and from last October were scored in every section of the country. This active October is the more significant in that it followed a record August and a record September. Similarly with new construction started, October

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ran 27 per cent. ahead of last October, while the year 1925 at the end of its tenth month is 28 per cent. in excess of the full year 1924. Contemplated new work also exceeded September's figure by a gratifying margin and also that of October, 1924, by over 50 per cent. Not only does this heavy volume of permits issued, contracts awarded and projects contemplated assure a high volume of actual contsruction for six to eight months or more, but it also seems to bear eloquent testimony to the continuing strength of the demand for new construction.

Dangers to Be Avoided

On the other hand it calls for a note of caution. For there are a number of signs that in some sections part of this recent tremendous increase in building activity is speculative building based on the stimulus of easy money. There is, in my opinion, too much vitality in the movement to explain it wholly or perhaps even largely on this ground, but certainly the easy money stimulus and the rapid multiplication of lending agencies have played an important part in certain areas. To the extent that this factor is effective, current building activity is subject to the danger of reaction caused by rising money rates. Such a tightening of the credit situation does not seem to be a matter of the proximate future, but this subject we shall have to leave for other speakers.

A second caution I would like to leave with you. Unfortunately a good deal of the present building represents unsound building, either because the projects are unwisely conceived or the locations poorly chosen or the building inefficiently designed or the construction cheap and hasty. Such unsound developments are storing up trouble for all of us. The firm with which I am connected has always prided itself on the experience and skill of its organization in the choice of locations, the intensive utilization of sites, the efficient planning of buildings and the careful supervision of construction. Yet at the present time, wherever practicable, we are having the owners of large commercial projects which we are to finance, secure the benefit of the experience, not only of our own architectural and engineering departments, but also of the building planning service of the National Association of Building Owners and Managers. This service assures that the plans are drawn with the greatest efficiency from the operating and renting standpoint and also gives an additional check on the earning possibilities and the economic wisdom of the project.

Speculation in Unimproved Lots

The third danger in the current situation is the unbridled speculation which has developed in unimproved land, particularly in Florida but also in or near a number of our large Northern cities. The orgy of speculation which Florida presents has been compared to the stock market without the protection of the bear element and the other safeguards of regulating committees. On the other hand, we should not forget that the boom has a real basis, that much solid value has been created by the increase of transportation facilities and other development work, and that steps are being taken by the responsible realtors of the state to moderate the speculative fever and check the excesses. I am told that the situation is even now much less hectic than it was a month ago and there is reason to hope that the policy of control referred to above will meet with further success. Even when values are stabilized on a more reasonable basis, as is likely by next summer, it is probable that the collapse will not have as serious an effect on the general business situation as some people expect.

But Florida is not the only center of real estate speculation. Incidents like the Far Rockaway boom on Long Island and the subdivision activity surrounding a number of our larger cities have led to the suggestion that we are in the midst

(Continued on page 63)

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Public Comfort Station, Cliveden Park, Johnson and Musgrave streets, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Works, Bureau of City Property, Philadelphia. Owners taking bids due February 2nd at noon. Certified check 5 per cent. of amount of bid. For further information apply Room 117, City Hall.

Residence and Garage, Overbrook, Pa. Architects, De Armond, Ashmead & Bickley, 20 South Fifteenth street, Philadelphia. Owner, P. A. Castner, Land Title Building, Philadelphia. Stone, 2½ stories, 50x120 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble work. Plans about completed. Architects will take sub-bids.

Mill Building, M street, North of Gary street, Philadelphia. Architects, Andrew J. Sauer & Son, Denckla Building, Philadelphia. Owners, Artcraft Silk Hosiery Mills, on premises. Brick, reinforced concrete, 1 story and basement, 192x86 feet, slag roof, cement and linoleum floors, steam heat, electric light, tile, marble and terrazzo work, rolled steel sash and skylights, rolled steel doors, kalamein doors, plumbing, elevators, sprinkle system, metal toilet partitions, area gratings. Architects taking bids due February 2nd at 10 A. M.

Factory Building, Swanson and Porter streets, Philadelphia. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Charles E. Johnson Co., Tenth and Lombard streets, Philadelphia. Steel, concrete, 1 story, 50x80 feet. Preliminary plans in progress. Too early for details.

Bank Building and Apartment Building, Seventeenth and Tioga streets, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Tioga Trust Co., Seventeenth and Tioga streets, Philadelphia. Brick, limestone, 9 stories, 50x150 feet, built-up roof, hardwood and cement floors, elevators, tile and marble work, steam heat, electric light. Plans in progress.

Shop, South side Christian street, West of Twenty-sixth street, Philadelphia, $50,000. Architect, private plans. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, 1 story, 64x132 feet. Permit granted.

Store, 322 South Seventh street, Philadelphia, $3,000. Architect, private plans. Owner, Jacob Mazer, 324 South Seventh street, Philadelphia. Brick, 1 story, 13x44 feet, slag roof, pine floors, electric light. Permit granted.

Shop, 104 North Felton street (rear), Philadelphia, $2,100. Architect, private plans. Owner, Raffaele Taraborelli, 104 North Felton street, Philadelphia. Brick, 2 stories, 20x25 feet, pine floors, electric light. Permit granted.

Office Building, Tabor Road, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Stokes Machine Co., on premises. Brick, 2 stories, 30x60 feet, slag roof, pine floors, electric light. Preliminary plans in progress.

Store (1), Apartments (5) (alts.), 1931 West Columbia avenue, $18,000. Architect, L. E. Binns, 5549 Germantown avenue, Philadelphia. Owner, Oscar Sanburg, care of architect. General alterations, hot water heat, electric light, slag roof, hardwood floors, plumbing. Plans in progress.

Store Building (add.), 5620 Germantown avenue, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Sacks Brothers, on premises. Brick, 2 story rear add. Plans in progress.

Office Building, American and Luzerne streets, Philadelphia. Architect, private plans. Owner, Thomas H. Livezey, on premises. Brick, steel, 3 stories. Plans in progress. Details undecided.

Sesqui-Centennial Building, Broad and Pattison avenue, Philadelphia, $750,000. Architect, Ralph Benckert, Bellvue Court Building, Philadelphia. Owners, State of Pennsylvania, Harrisburg, Pa. Steel, metal lath and stucco, 1 story. Architect selected. Plans in progress.

Patrol House, Third and Race streets, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Bureau of Police, Department of Public Safety, City Hall. Brick, 1 story. Plans in progress.

Building, Juniper and Waverly, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, steel. Plans in progress.

Conwell Memorial, Broad above Montgomery avenue, Philadelphia, $3,000,000. Architect, not yet selected. Owners, Temple University, C. E. Buery, National Bank of North Philadelphia. Work contemplated.

Apartment House, Thirty-third and Columbia avenue, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owners, Parkway, Apartment Corporation care of architect. Brick, terra cotta, steel, concrete, 14 stories, built-up roof, elevators, concrete footings, tile and marble work, electric light, steam heat. Architect revising plans.

Residence and Garage, 7037 Lincoln Drive, Philadelphia. Architect, John J. Carroll, 1619 Chestnut street, Philadelphia. Owner, name withheld. Brick, concrete block, stucco, 2½ stories, 28x56 feet, 10x18 feet, slate roof, hardwood and rubber tile floors, vapor heat, electric light, oil burning, tile work (3 baths). Plans in progress. Architect will be ready for bids in 3 weeks.

Apartment Building, Cliveden street and Lincoln Drive, Philadelphia, $700,000. Architects, Sugarman & Berger, 345 Madison avenue, New York City. Owner, Alfred Groce, care of architect. Brick, limestone, steel, terra cotta, 4 stories, 150x240 feet, steam heat, electric light, hardwood floors, elevator, tile and marble work. Plans in progress. Architects will be ready for sub-bids in about 6 months.

Alterations (2) Stores to Dwellings, 2400 Sergeant street, Philadelphia. Architectural engineer, M. M. Boonin, 17 South Seventeenth street, Philadelphia. Owners, Goldman, Rodis & Bodnick, 3232 West Arlington street, Philadelphia. Brick, stone, 2 stories, 15x53 feet, slag roof, pine floors, hot water heat, electric light, galvanized iron bays and cornices, flush bulks. Owners taking sub-bids due as soon as possible.

Hospital, Philadelphia. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Osteopathic Hospital, care of architects. Brick, steel, concrete, 4 stories, 58x156 feet, slag roof, composition, tile and linoleum floors, hollow tile, elevators, safety treads, roof ventilators, metal weather strips, waterproofing and dampproofing, brass pipe, ornamental iron, iron stairs, bond, tile and marble, metal lath, vapor heat, electric light. Architects will take bid in 2 weeks.

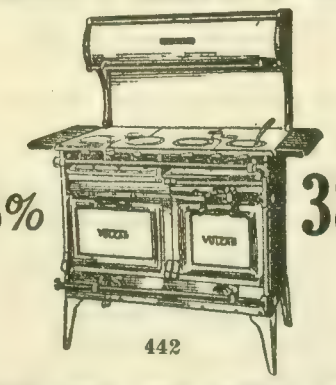
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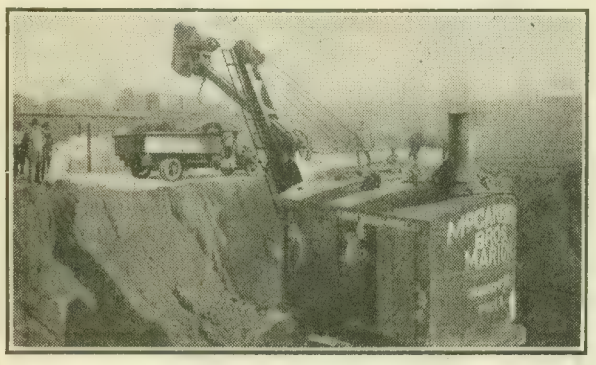
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street, Philadelphia. Owners, Disston Memorial Presbyterian Church, on premises. Stone, cast stone, 2 stories and basement, 118x50 feet, slate and slag roof, pine and cement floors, electric light, metal lath, rolled steel sash, ventilating skylights, ornamental iron work, flagstone, revised plumbing. Architect taking bids due February 2nd.

Garage and Show Room, Oxford avenue, South of Cottman street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Harry J. Minich, 7243 Rising Sun avenue, Philadelphia. Brick, steel, reinforced concrete, 1 and 2 stories, 75x130 feet, slag roof, cement floors, waterproofing, steam heat, electric light, rolle dsteel sash. Owner taking revised bids due as soon as possible.

Store and Apartment (alts. and add.), Southwest Corner Twentieth and Ontario streets, Philadelphia. Architect, E. L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, B. Rosenberg, Penfield Building, Philadelphia. Brick, 4 stories, 24x119 feet, steam heat, electric light, tile and marble, slag roof, hardwood floors, oil burning equipment, copper bulks, plate glass. Architect taking bids due January 29th.

Residence, Chestnut Hill, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, A. R. Bensinger, Chestnut Hill, Pa. Architects taking bids due January 29th at noon.

Elevation of Railroad, Twenty-fifth, Washington to Passyunk avenues, Washington avenue, Gray's Ferry Road, from Schuylkill River to Delaware River. Owners, Pennsylvania Railroad and Baltimore & Ohio R. R., care of E. B. Temple, Broad Street Station, Philadelphia. Relocation, extension, elevation of lines, completion of viaduct. Plans in progress. Will take bids in two months.

Paving, Grading and Sewer Work, Appurtenant Work, for Elevation of Railroad (mentioned above). Owners, Department of Public Works, Bureau of Highways, City Hall. Plans in progress.

Church and Sunday School, Northeast Corner Broad street and Grange avenue, Philadelphia. Architects, Stuckert & Co., 1420 Chestnut street, Philadelphia. Owners, Heidelberg Reformed Church, on premises. Stone, will contain church auditorium, assembly rooms, class rooms, social hall and gym. Plans in progress.

Store Building and Garage, 25-27-29 North Sixtieth street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, G. & R. Furniture Co., on premises. Brick, steel, 3 stories, 48x85 feet, slag roof, composition and maple floors, elevator, structural steel, copper skylights, metal bulks, steam heat, electric, metal lath, tile and marble (heating, electric and elevator reserved). Plans about completed. Ready for bids in one week.

Belle Claire Apartment Hotel (alts.), Fortieth and Parkside and Girard, Philadelphia, $75,000. Architect, private plans. Owner, A. S. Shafer, 4651 Walnut street, Philadelphia. Sand-blasting, cut stone renovating, brick and stone pointing, 8-story apartment and hotel building, 94 apartments, electric elevators, alterations to heating and plumbing, generating plant, electric work, metal bulks, steel sash, tile and marble work, metal ceilings, composition flooring, carpentry, mill work, hardware, metal lath, plastering, interior decorating, plate glass, painting. Owner taking sub-bids due as soon as possible.

Apartment House, Northwest Corner Wayne and Tulpehocken street, Philadelphia. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, L. B. Raidman, Fox Building, Philadelphia. Brick, stone, steel, 4 stories, 151x156 feet, tile roof, vapor heat, electric light, tile and marble work, hardwood floors, elevator, kitchen equipment. Owner ready for sub-bids.

Building (alts.) to Store and Office, 2206 Walnut street, Philadelphia. Architects, Lippincott & Schaef, 11 South Sixteenth street, Philadelphia. Owner, Fred Bauer, on premises. General interior alterations and new store front. Plans about completed. Architects will be ready for bids in a few days.

Cobb's Creek Park Golf House (alts. and add.), Cobb's Creek, Philadelphia. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Commissioners of Fairmount Park, City Hall, Philadelphia. Low bidders: D. Lutz & Co., Twenty-third and Chestnut streets, $24,280; J. S. Creamer, 1739 North Twenty-sixth street, Philadelphia, $24,800.

Supplies, Philadelphia Navy Yard, Philadelphia. Owners, Bureau of Supplies and Accounts, Washington, D. C. Owners taking bids due February 2nd, 10 A. M., for delivery of diatomaceous earth bricks, blocks and plastic to the Philadelphia Navy Yard.

Apartment House, 4713 Chester avenue, Philadelphia, $80,000. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, Samuel Elgart, 5230 Parkside avenue, Philadelphia. Brick, 4 stories, 21x167 feet 6 inches, 67 feet 6 inches x 32 feet 6 inches, slag roof, hardwood and pine floors, steam heat, electric light, tile work. Permit granted.

Stores and Residences (2), Beechwood and Wyncote avenue, Philadelphia, $13,500 total. Architect, private plans. Owners, Salasin & Wagner, 7034 North Broad street, Philadel-

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phia. Brick, 2 stories, (1) 16x30 feet, 13x11 feet, (1) 29 x irregular, slag roof, hardwood and pine floors, steam heat, electric light. Permit granted.

Residences (2), West side Sixty-third street, North of Lebanon avenue, $5,000 each. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, McWilliams & Maloney, 539 South Fifty-second street, Philadelphia. Brick, 3 stories, 16 feet 4 inches x 22 feet, 16 feet 4 inches x 23 feet 6 inches, hot water heat, electric light, hardwood and pine floors. Permit granted.

Residences (106), Luzerne, Neilson, Ormond and O streets, Philadelphia, $496,000. Architect, private plans. Owner, Matthew H. Dougherty, 822 Sixty-ninth avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (19), Torresdale avenue, Faunce, Oakmont and Maple streets, $99,500. Architect, private plans. Owner, Samuel Rochlis, 1518 North Fifth street, Philadelphia. Brick, (15) 2 stories, 15x32 feet, 12x10 feet, (4) 3 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, 8029 Buist avenue, Philadelphia, $3,600. Architect, private plans. Owner, A. Pajor, 8121 Buist avenue, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Church (alts.), Twenty-second above Fairmount avenue, Philadelphia. Architect, Osborne H. Graves, 112 Merion avenue, Narberth, Pa. Owners, Welsh Presbyterian Church, on premises. Architect taking bids due February 3rd.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, 1431-37 North Front street, Philadelphia. Architect, private plans. Owner, J. D. Anderson, care of builder. Brick, 1 story, 120x60 feet x irregular, steam heat, electric light, slag roof, cement floors. Contract awarded J. T. Murphy, 1712 North Second street, Philadelphia.

Garage, 104 Van Horn street, Philadelphia. Architect, private plans. Owner, care of builder. Brick, 1 story, 50x20 feet, slag roof, cement floors, steam heat, electric light. Contract awarded to James T. Murphy, 1712 North Second street, Philadelphia.

Alterations and Additions, Southwest Corner Broad and Wharton streets, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Southern Title & Trust Co., on premises. Linoleum floors, electric work, plumbing, hardware, painting and glazing, marble, tile and terrazzo work, plastering, metal lath, cabinet work, carpentry and mill work, steel and iron work, brick work, cut stone, concrete and cement, built-up slag roof, area gratings. Contract awarded to Monaghan & Losso, 3016 Chestnut street, Philadelphia.

Interlocing Sewer, Overbrook Station, Overbrook, Pa. Division engineer, Mr. Littman, Thirty-second and Powelton avenue, Philadelphia. Brick, 2 stories, 17x17 feet, slate roof, cement floors. Contract awarded John N. Gill Cont. Co., City Center Building, Philadelphia.

Store Building, 104-06 North Fifty-second street, Philadelphia. Architect, Harold Holmes, Detroit, Mich. Owner, S. S. Kreske, Detroit, Mich. Brick, concrete, granite, steel, 2 stories and basement, 112x84 feet, wing 42x40 feet, steam heat, electric light, metal lath, tile and marble and terrazzo work, hollow metal skylights, tin-clad doors, bond, metal bulks, ornamental iron work, Careo or Barrett or Johns Manville built-up roof, cement and maple floors, plumbing, dumb waiter, Stedman floors, ventilators, metal weather stripping, plate glass, integral waterproofing. Contract awarded F. W. Van Loon, Perry Building, Philadelphia.

Theatre, Ogontz avenue, Church Lane and Limekiln Pike, Philadelphia, $275,000. Associate architects, Magaziner, Eberhard & Harris, 603 Chestnut street; Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Ogontz & Church Lane Realty Co., care of architects. Brick, cut stone, steel, gypsum and Barrett specification roof, cement and pine floors, maple floors, hollow tile, dampproofing, architectural terra cotta, ornamental iron work, floor hardener, bond, tin-clad and kalamein doors, hollow metal sash, tile, marble and terrazzo work, metal lath, bronze work, integral waterproofing. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Store and Apartments, Church Lane and Limekiln Pike, Philadelphia, $260,000. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Ogontz & Church Lane Realty Co., care of architects. Brick, cut stone, steel, 2 stories and basement, irregular in size, slag roof, cement floors, plumbing, hardware, painting and glazing, electric, metal lath, tile, marble, hollow metal

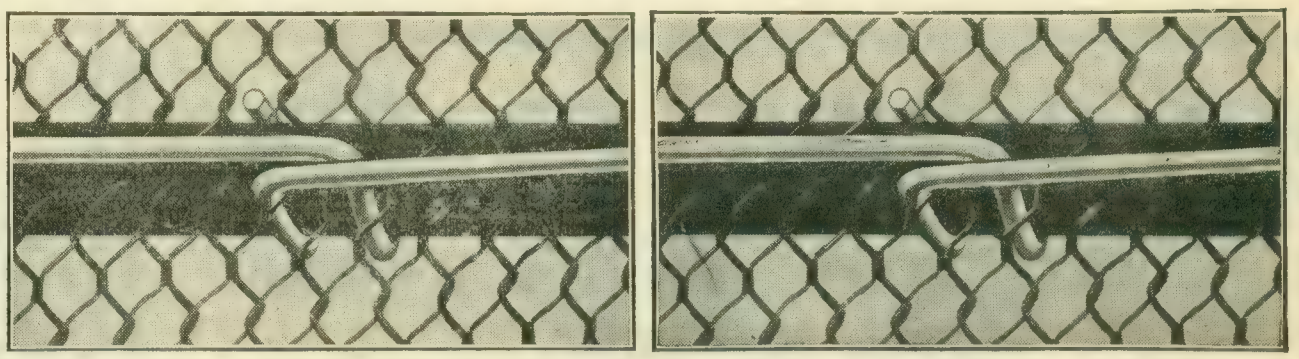
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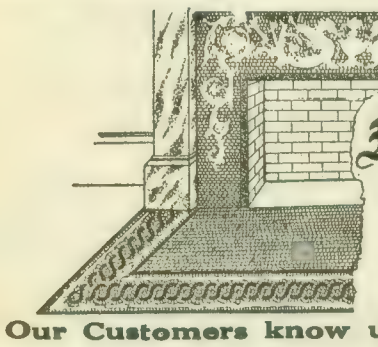


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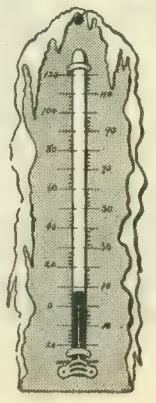
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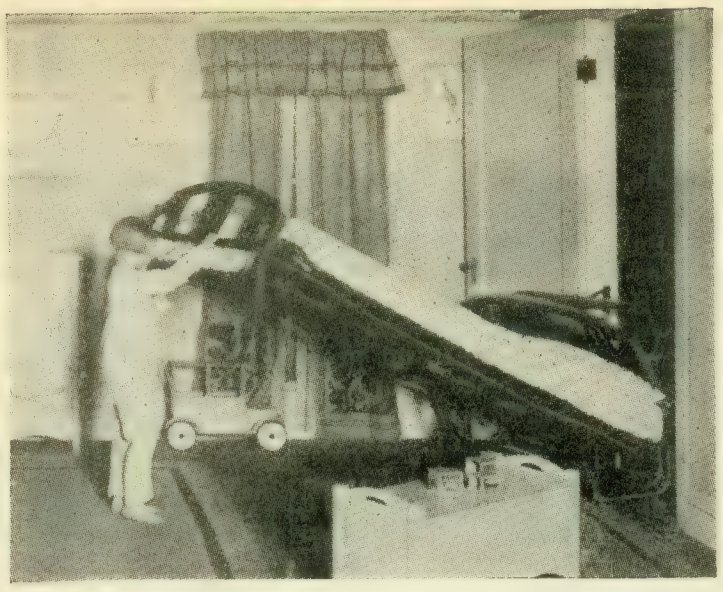
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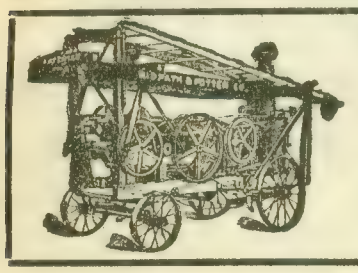
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sash, ornamental iron work (metal bulks separate). Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Residence and Garage, Chestnut Hill, Pa. Architects, Trout & Truscott, 222 South Jessup street, Philadelphia. Owner, Elizabeth S. Greer, 6660 Lincoln Drive, Germantown. Stone, 2½ stories and basement, 51x27 feet, wing 32x30 feet, hot water heat, electric light, metal lath, tile work, rolled steel sash, ornamental iron work, variegated slate roof, oak and pine and linoleum floors. Contract awarded William F. Newberry, Otis Building, who is taking sub-bids due as soon as possible.

Residence and Garage, Greene and Gowen streets, Chestnut Hill. Architect, Roberts Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Miss Hilda Justice, care of architect. Stone, cut stone, 2½ and 1½ stories, 45x22 feet, 22x27 feet, shingle roof, oak, pine and cement floors, plumbing, vapor heat, electric light, metal lath, tile work, bond, ornamental iron work, flagstone. Contract awarded J. Sims Wilson, 1125 Brown street, Philadelphia.

Stores and Offices (3), Frankford and Bridge streets, Philadelphia. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owners, Keystone State Realty Co., care of architect. Brick, steel, 1 and 2 stories, 42x64 feet, slag roof, maple floors, steam heat, electric light, tile and marble work, steel, gas radiation, plate glass, copper work. Contract awarded S. H. Levin, Elrae Building, Philadelphia.

Convent (add. and alts.), 1812-14 Green street, Philadelphia, $36,000. Architects, Stimmler & Winter, 323 Roxborough avenue, Philadelphia. Owners, Dominican Guild, on premises. Brick, limestone, steel, 3 stories, 48 feet x irregular, slag roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to Mealey & Dykes, 5522 Greenway avenue, Philadelphia.

Restaurant Building, 6006-08 Market street, Philadelphia. Architect, private plans. Owners, Horn & Hardart Baking Co., John Fretsche, 214 South Tenth street, Philadelphia. Contract awarded Harry R. Rust, 41 North Hutchinson street, Philadelphia, without competition. Plans in progress. Ready for bids in two weeks.

Packing Plant and Garage (restoration), Ninth and Girard avenue, Philadelphia. Architect, private plans. Owners, Swift & Co., F. H. Hall, on premises. General repairs and fire restoration. Contract awarded Barclay White, 1713 Sansom street, Philadelphia.

Automobile Sales and Service Station, Broad and Washington avenue, Philadelphia, $130,000. Architect, P. S. Dyre, 1509 Arch street, Philadelphia. Owners, Duff Nash Motor Co., 1113 South Broad street, Philadelphia. Brick, cut stone, cut cast stone, steel, 4 stories and basement, 100x83 feet, slag roof, cement floors, hollow tile, elevators, shoring, architectural terra cotta, ornamental iron work, floor hardener, fire doors, rolled steel sash, tile and marble work, metal lath, electric light, steam heat, dumb waiter, monolithic floor, area gratings. Contract awarded White Const. Co., Jefferson Building, Philadelphia.

Service Station, Northeast Corner Fifth and Courtland, Philadelphia. Architect, private plans. Owners, Trugas Oil Co., on premises Concrete block stucco, 1 story, 8x12 feet, electric work, cement. Contract awarded Fred Schreiber, 1306 City Line, Philadelphia.

Residence (repairs), 1906 North Twenty-first street, Philadelphia, $2,600. Architect, private plans. Owner, James Gray, 1906 North Twenty-first street, Philadelphia. General fire repairs. Contract awarded to J. F. Trent, Nineteenth and Addison streets, Philadelphia.

Store and Residence (alts.), 6042 Market street, Philadelphia, $2,000. Architect, private plans. Owners, Betty Sweet Shop, on premises. General alterations. Contract awarded to McVaugh Const. Co., 6134 Market street, Philadelphia.

Factory (repairs), North side Noble, West of Broad street, $20,000. Architect, private plans. Owners, H. Belfield Co., Broad and Willow streets, Philadelphia. General fire repairs. Contract awarded to A. Raymond Raff, 135 Thompson street, Philadelphia.

Boiler House and Stack, East side Meadow, South of Reed, $19,435. Architects, Stone & Webster, Boston, Mass. Owners, Franklin Sugar Refining Co., on premises. Concrete and brick, 330x15 feet. Contract awarded to Rust Eng. Co., Pittsburgh, Pa.

Stores and Residence (add. and alt.), 4951 Germantown avenue, $11,500. Architect, private plans. Owner, Morris Kavitsky, 1709 Ridge avenue, Philadelphia. Brick, 3 stories add., 18x26 feet, general alterations. Contract awarded to L. Rubin, 421 Jackson street, Philadelphia.

Residences (2) (alts.), 3215-17 Ridge avenue, Philadelphia, $10,000. Architect, private plans. Owner, Nathan Teller, on premises. General alterations. Contract awarded to National Const. Co., 26 South Fifteenth street, Philadelphia.

Residence, 8411 Torresdale avenue, Philadelphia, $5,000. Architect, private plans. Owner, Daniel Cacclio, 8411 Torresdale avenue, Philadelphia. Brick and stone, 2 stories, 14 feet 6 inches x 35 feet 6 inches, steam heat, electric light. Contract awarded to William Ludwig, 6106 Hegerman street, Philadelphia.

Manufacturing Building (repairs), South-

SUB CONTRACTORS' Representative

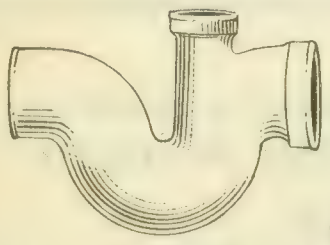
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west Corner Meadow and Jackson streets, $4,000. Architect, private plans. Owners, Lubrico Company, on premises. General fire repairs. Contract awarded to A. Raymond Raff Co., 1635 Thompson street.

Gasoline Station, Southeast Corner Mascher and Allegheny avenue, $2,800. Architect, private plans. Owner, Harry S. Lipschutz, on premises. Brick, 1 story, 15x15 feet. Contract awarded to A. Raymond Raff Co., 1635 Thompson street.

Storage Building (alts.), Northwest Corner Tioga and Salmon streets, $2,000. Architect, private plans. Owners, Philadelphia Gear Works, on premises. General alterations. Contract awarded to A. Raymond Raff Co., 1635 Thompson street.

Store and Office (alts.), 3127-29 North Broad street, Philadelphia, $13,000. Architect, private plans. Owners, Philadelphia Motor Accessories Co., 3127 North Broad street. General alterations. Contract awarded to R. M. Peterson & Son, 16 Queen Lane, Philadelphia.

Residence (alts.), 1823 Pine street, Philadelphia, $5,600. Architect, private plans. Owner, Dr. Weisblum, on premises. General alterations. Contract awarded to Golder Const. Co., 263 South Fifteenth street, Philadelphia.

Store and Residence (add. and alts.), 3265 Ridge avenue, Philadelphia, $4,000. Architect, private plans. Owner, Anna Slotkin, 3238 Fontaine street, Philadelphia. Brick, 1 story add., 16x10 feet, general alterations. Contract awarded to Max Seigel, 1723 North Franklin street, Philadelphia.

Store and Residence (alts.), 2063 Ridge avenue, Philadelphia, $3,500. Architect, private plans. Owner, Eddie Cortter, 2063 Ridge avenue, Philadelphia. General alterations. Contract awarded to I. Rubin, 1543 North Mervine street, Philadelphia.

Store and Residence (alts.), 1900 Pine street, Philadelphia, $12,000. Architect, private plans. Owner, William Finkle, Twentieth and Rittenhouse streets, Philadelphia. General alterations. Contract awarded to Solomon Pokolsky, 2313 Walnut street, Philadelphia.

Warehouse (repairs), Northwest Corner Fourth and Bristol streets, Philadelphia, $7,800. Architect, private plans. Owners, Laurence McFadden Co., 4100 Frankford avenue, Philadelphia. General fire repairs. Contract awarded to W. C. Wright & Son, 22 Harvey street, Germantown.

Warehouse (alts.), 2731-33 North Edgemont street, Philadelphia, $6,000. Architect, private plans. Owners, William F. Meehan & Brothers, 707 East Girard avenue, Philadelphia. General alterations. Contract awarded to Charles J. Spencer, 2211 North Lawrence street.

Garage, rear of 925 Carpenter street, Philadelphia, $5,000. Architect, private plans. Owners, Testa & Consigna, 925 Carpenter street, Philadelphia. Brick, 1 story, 48x54 feet, 16x20 feet, slag roof, cement floors. Contract awarded to Frank Palava, 1714 Wolf street, Philadelphia.

Residence (add.), 5905 Ridge avenue, Philadelphia, $2,350. Architect, private plans. Owner, John Daubert, 486 Walnut lane, Phila. Brick, 1 story front add., 20 feet 10 inches x 19 feet 6 inches. Contract awarded to W. F. Kenney, 4354 Mitchell street, Philadelphia.

Residence (add. and alts.), 1420 Bainbridge street, Philadelphia, $5,500. Architect, private plans. Owner, Richard Anderson, 805 South Eighteenth street, Philadelphia. Brick, 3 stories add., 15 feet 6 inches x 14 feet, general alterations. Contract awarded to W. R. Waymon, 741 South Chadwick street, Philadelphia.

Store and Residence, 1404 North Fifty-second street, Philadelphia, $2,000. Architect, private plans. Owner, Mr. Murphy, on premises. Brick, 2 stories add., 14 feet 4 inches x 12 feet, slag roof, pine floors. Contract awarded to Patrick Maxwell, 3606 Aspen street, Philadelphia.

Store and Residence (alts.), 5119-21 Germantown avenue, $2,000. Architect, private plans. Owner, Max Higilman, 5131 Germantown avenue, Philadelphia. General alterations. Contract awarded to J. Goldfarb, 2523 South Reese street, Philadelphia.

Pennsylvania Construction News

Theatre, Bethlehem, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Independent Theatre Co., Bethlehem, Pa. Brick, steel, 2 stories, 80x200 feet, built-up roof, reinforced concrete, hollow tile, steam heat, electric light, tile and marble work. Plans completed. Owners will award contract without competition.

Residence, Southeast Corner Curwen Road and Curwen Circle, Rosemont, Pa. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, D. E. McIlvaine, Rosemont, Pa. Brick, stucco, 2½ stories. Plans in progress.

Church, Lewistown, Pa. Architects, Bolton & Son, Schaff Building, Philadelphia. Owners, Trinity Reformed Church, H. E. Knepp and J. E. Rupley, on premises. Stone, 2 stories and basement, 80x120 feet. Will be ready for bids in about two months.

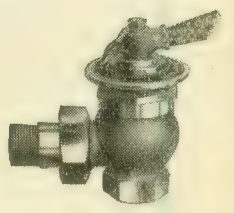
Sewage Treatment Plant, Quakertown, Pa. Engineers, Remington & Vosbury, 509 Cooper street, Camden, N. J. Owners, Borough Council of Borough of Quakertown, Fred A Krauss, secretary, Quakertown, Pa. Contract No. 2 of proposed sewerage system. Certified check for 5 per cent. required. Bond for 100 per cent. of contract price required. Deposit of $15.00; refund $10.00. Owners taking bids due February 8th at 8 P. M. at Borough Hall.

Convent, South Ardmore, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth St., Phila. Owners, St. Dennis' Parish, South Ardmore, Pa. Stone, brick, reinforced concrete, steel, limestone, granite, 3 stories and basement, 57x37 feet, slag roof, architectural and cement floors, painting and glazing, electric light, metal lath, tile and marble work, bond, ornamental iron work. Architects taking bids.

Residence and Garage, Drexel Hill, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, George W. Statzell, Drexel Hill, Pa. Hollow tile, stucco,

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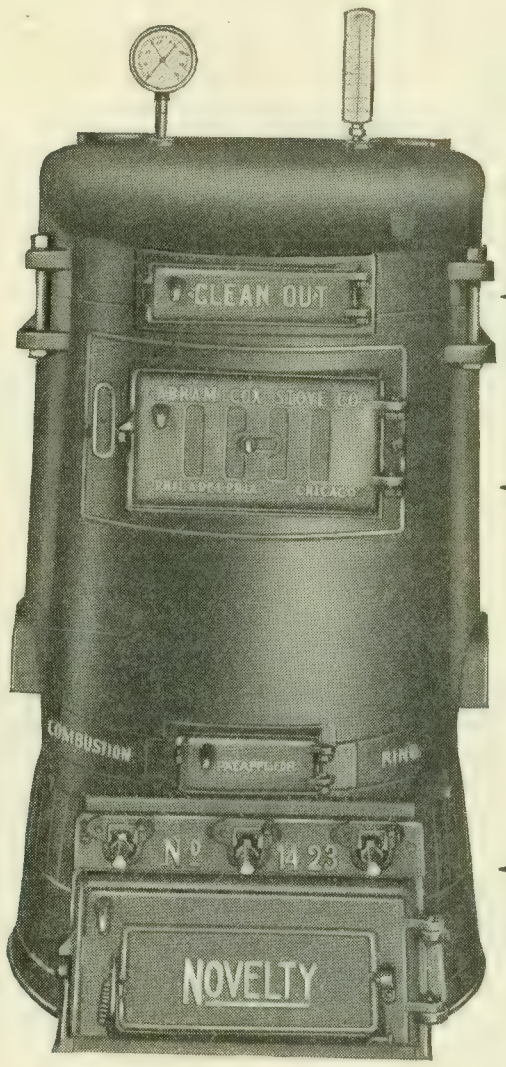
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Straight, deep firepot. Straight pot prevents the collection of ashes along the side as occurs in sloping firepot. This collection of ashes always has a deadening effect on the fire just where it should be hottest.

A deep firepot allows for deeper fuel bed and enables you to carry fire throughout the day or over night.

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This ring prevents the lower portion of the firebed from coming in contact with the water sections which surround the firepot. The cool water returning from the radiators, enters both sides of the boiler at the bottom of the water section. This water, because it is much cooler than the fire, chills the fire around the sides of the pot, below the temperature of combustion. The result is, that the boiler requires more frequent attention. Also, partly burned fuel along the sides of the firepot is wasted because there is no fire under it to burn it and it settles down to the grates, passing to the ashpit when the fire is shaken.

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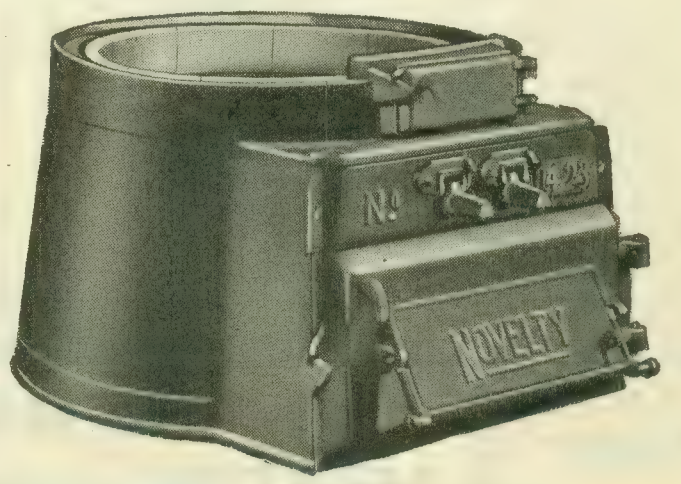


Illustration of Combustion Ring

2½ stories, 30x54 feet, 20x30 feet, Spanish tile roof, hardwood floors, refrigerator, hot water heat, electric light, oil burning, tile work. Plans in progress.

Bank, Upper Darby, Pa. Architect, not selected. Owners, Sixty-ninth Street Terminal Title & Trust Co., C. Gilpin Robinson, Sixty-ninth and West Chester Pike. Work contemplated.

Apartment House, Merwood, Pa. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, steel, stucco, 3 stories and basement, 90x150 feet. Preliminary plans in progress.

Apartment House, Stratford and Lansdowne avenue, Lansdowne, Pa. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, L. Landy, care of architect. Brick, slag roof, hardwood and rubber tile floors, vapor heat, electric light, oil burning equipment, tile and marble work. Revised plans in progress.

Hospital for Crippled Children, Elizabethtown, Pa. Architect, not yet selected. Owners, State of Pennsylvania, Department of Health, Dr. Charles Miner, Capitol Building, Harrisburg, Pa. Details undecided. **Work** contemplated.

Factory (add.), Quakertown, Pa., $50,000. Architect, not yet selected. Owners, Maxwell Silk Co., Edward M. C. Tower, president, care of Smith & Kaufman, Inc., 19 East Twentysixth street, New York. Brick, steel, 2 stories. Work contemplated. Too early for details.

Apartment, Northampton, Pa. Architect, H. J. Weigner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Adam Brucher, Jr., 735 Main street, Northampton, Pa. Frame, 3 stories, 45x70 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, tile work. Plans in progress.

Hospital, Wellsboro, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, Soldiers' & Sailors' Memorial Hospital, H. B. Packer, 107 Main street, Wellsboro, Pa. Brick, 3 stories. Preliminary plans in progress.

Residence, Drexel Hill, Pa. Architects, H. Rex Stackhouse and W. W. Donohue, 1120 Locust street, Philadelphia. Owner, name withheld. Stone, 2½ stories. Plans in progress.

Hotel, Pottsville, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, care of E. C. Luther, Pottsville, Pa. Brick, steel, 8 stories. Plans in progress.

Residence, Bryn Mawr, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, Dr. J. Norman Henry, 1906 Spruce street, Philadelphia. Stone, 2½ stories. Plans in progress.

Residence, Chestnut Hill, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, Ellis Ames Ballard, Land Title Building, Philadelphia. Stone, 2½ stories. Plans in progress.

Residence, Merion, Pa., $50,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories. Plans in progress. Architect will take general bids.

Residence, Wynnefield, Pa., $35,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories. Plans in progress. Architect will take general bids.

School, Hatboro, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Cheltenham Township School Board, Cheltenham, Pa. Brick, 1 story. Plans in progress.

Offices and Apartments (3) (alts.), Garages (9), Norristown, Pa. Architect, E. Lane Crawford, Curren Arcade, Norristown, Pa. Owner, J. Fenton Cloud, 510 Swede street, Norristown, Pa. Brick, 2 and 3 stories, general interior and exterior alterations, steam heat, plumbing, tin roof, electric work, tile work, limestone trim, painting. Owner taking sub-bids.

Twin Residence, Allentown, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, Aaron Aronsky, 416 Hill street, Allentown, Pa. Hollow tile, brick and stucco, 2½ stories, 40x80 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Owner will take sub-bids.

Residence and Garage, Merion, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Edward H. Harris, 2214 Chestnut street, Philadelphia. Brick, 2½ stories, 35x62 feet, wing 20x45 feet, tile work, electric light, slate roof, hardwood floors. Architects will take bids in 3 weeks.

Store and Apartment, Lehighton, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, William Peters, Lehighton, Pa. Brick, 4 stories, 60x36 feet, slag roof, pine floors, vapor vacuum heat, electric light, plate glass, copper work, metal ceilings. Plans in progress. Owner will take bids.

Schools (4), Drexel Hill, Highland Park, Bywood, Stonehurst, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, School Board of Upper Darby Township, Upper Darby, Pa. Plans will be ready for contractors February 1st. Bids due February 15th.

Quarry Buildings, near Harrisburg, Pa., $20,000. Architect, private plans. Owner, M. G. Sollenberger, 2224 Market street, Harrisburg, Pa. Concrete, steel, 1 story. Owner will build.

Bank Building, Spring Grove, Pa. Architects, Simons, Brittain & English, Pittsburgh, Pa. Owners, People's Bank, Adam Swartz, president, Spring Grove, Pa. Brick, limestone, fireproof, 1 story and basement, 125x62 feet. Owners taking bids due January 28th.

Residences, Nos. 6 and 7, Haverford, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, cut stone, 2½ stories and basement, 81x31 feet, 72x31 feet (plumbing, heating, electric and refrigerators reserved), variegated slate and slag roof, oak and pine floors, metal lath, tile work, ornamental iron work. Architects taking bids due January 28th.

Junior High School, Williamsport, Pa. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, Williamsport School District, H. A. Stearner, secretary, 229 Third street, Williamsport, Pa. Brick, stone, fireproof, 2 stories and basement. Certified check, 5 per cent. Owners taking bids due **February 18th.**

Garage, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, A. Krause, care of architects. Semi-fireproof, steel, brick, 3 stories, 26x98 feet, built-up roof, concrete floors, elevators, steam heat, fire doors, electric light, steel sash. Owner and architects taking bids due February 1st.

Building, Minersville, Pa. Architect, W. D. Hill, Pottsville, Pa. Owner, name withheld. Brick and tile, 3 stories, 20x70 feet, built-up roof, wood and composition floors, hollow tile, metal ceilings, tile and marble work, metal lath, vapor heat, electric light, fire escape. Architect taking bids due February 8th.

Residence, King of Prussia, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Charles E. Thomas, care of architect. Bids due Feb. 8th.

Factory, on Pennsylvania Railroad, Bristol, Pa., $300,000. Owners, Pacific Boiler Corp., 101 Park avenue, New York. Brick, steel, 1 story. Work contemplated.

Residence and Garage, Merion Golf Manor, Pa., $50,000. Architect, H. Trumbauer, Land Title Building, Philadelphia. Owner, Louis A. Davis, Land Title Building, Philadelphia. Stone, 2½ stories. Preliminary plans in progress. Too early for details. Will take bids in spring.

Senior High School, Ardmore, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Two stories and basement. Owner taking bids due February 5th.

Pennsylvania Contracts Awarded

Residence, Bethlehem Pike near Church Lane, Whitemarsh, Pa. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, Mrs. Jesse Nalle, Whitemarsh, Pa. Brick, hollow tile, 2½ stories and basement, 84x24 feet, wing 53x24 feet, 41x19 feet, cut stone, stucco, shingle and tile roof,

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oak and pine, cement floors, tile and marble work, rolled steel skylights, bond, ornamental iron work, waterproofing, Straub building blocks, flagstone. Contract awarded William J. Ryder, 1725 Sansom street, Philadelphia.

Twin Residences (2 pair), Merion, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Casper Bongiovanni, Merion, Pa. Concrete block, stucco, 2½ stories, 18x38 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded C. C. Pace, Cynwyd, Pa.

Superintendent's Cottage, Laurelton, Pa. Architect, George S. Idell, 1520 Chestnut street, Philadelphia. Owners, Laurelton State Village for Feeble Minded, Laurelton. Contract awarded S. B. Kessler, Northumberland, Pa., $27,349. Plumbing, B. O. Daubert, Lewisburg, Pa., $3,368. Plumbing and heating, B. O. Daubert, Lewisburg, Pa., $4,800. Electric, Bly Brothers, Milton, Pa., $968.

New Jersey Construction News

Residence, 464 North Thirty-second street, Camden, N. J., $5,000. Architect, private plans. Owner, V. M. Foutz, 78 North Forty-sixth street, Merchantville, N. J. Frame, 1 story, 24x34 feet, slate surface roof, warm air heat, electric light. Permit granted.

Manufacturing Building, Pleasantville, N. J. Architects, Andrew J. Sauer & Co., Denckla Building, Philadelphia. Owners, Starr Knitting Mills, Oxford avenue and Griscom street, Philadelphia. Brick, reinforced concrete, 1 story and basement, 197x85 feet, Barrett specification roof, cement and linoleum floors, plumbing, integral waterproofing, steam heat, electric light, metal lath, tile, marble and terrazzo work, rolled steel sash and skylights, rolling steel doors, kalamein doors, ornamental iron work, area gratings, metal toilet partitions. Architects taking bids due February 2nd, 10 A. M.

Road Reconstruction, New Jersey. Owners, Board of Chosen Freeholders, Monmouth County, Bryant B. Newcomb, Director, Freehold, N. J. Engineer, George K. Allen, Jr., 60 Broad street, Red Bank, N. J.

Monmouth County, Rumson Road No. 47, Branch avenue to Harding Road. Reinforced concrete. 0.79 mile.

Monmouth County, City of Long Branch, Cedar and Westwood avenues. Concrete base, sheet asphalt surface. 1.65 miles.

Monmouth County, Howell Township, Bridge No. H1-45. Deposit $10.00 (refunded). Certified check 10 per cent. Owners taking bids due February 3rd at 11 A. M.

Moving Picture Theatre, 31 King's Highway, Haddonfield, N. J., $175,000. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Hunt's Theatre, Inc., 1324 Vine street, Philadelphia. Brick, steel, hollow tile, 3 stories, 66x220 feet, slag roof, steam heat, electric light, tile and marble work, hollow tile. Plans in progress. Owners will take bids in two weeks.

School, Paulsboro, N. J., $200,000. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of Education, C. Meyers, Paulsboro, N. J. Brick, steel, 2 stories and basement. Plans in progress.

Club House, Somers Point, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Ocean City Harbors Corporation, care of architect. Brick, stucco, 2 stories. Sketches in progress.

Office, Garage and Storage Building, Long Branch, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, American Poster Advertising Co., Trenton, N. J. Fireproof, 1 story, 50x105 feet, slag roof, wood and concrete floors, steam heat, electric light, metal lath, fire doors. Plans in progress.

Bungalow, Trenton, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton N. J. Owner, Albert Bazzel, 430 Monmouth street, Trenton, N J. Brick, 1½ stories, 48x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Bungalow, Margate City, N. J., $30,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, F. Errico, Sr., 5 South California avenue, Atlantic City, N. J. Brick, tile, 1 story, 35x55 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residences (3), Margate City, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owners, F J. Pedrick & Son, 1415 Atlantic avenue, Atlantic City. Frame, stucco, 2 stories, 25x36 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owners will build.

Bungalow, Margate City, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owners, F. J. Pedrick & Son, 1415 Atlantic avenue, Atlantic City. Frame, stucco, 1 story, 26x43 feet, tile roof, hardwood floors, tile work, hot water heat, electric light Plans in progress. Owner will build.

Bank, Broadway and Ferry avenue, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, South Camden Trust Co., Clarence Hayden, secretary, Camden, N. J. Brick, terra cotta and concrete, 1 story, mezzanine and basement, 64x88 feet, slag roof, terrazzo, hardwood and linoleum floors, metal window guards, hollow tile, ornamental iron vault, bronze work, bank fixtures, rolled steel sash, marble work, metal lath, vapor heat, electric light. Architects will be ready for bids next week.

Church, Grant and Berkley streets, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Calvary Presbyterian Church, Camden, N. J. Stone, steel, 1½ stories, 84x100 feet, slate roof, maple floors, waterproofing, electric light. Architects taking bids due February 8th.

Stores and Apartment, Warren and Perry streets, Trenton, N. J. Architect, P. L. Fowler, 224 East Hanover street, Trenton, N. J. Owner, N. A. K. Bugbee, 20 East Hanover street, Trenton, N. J. Brick, 3 stories, 46x60 feet, slag roof, yellow pine floors, steam heat, electric light, tile work, plate glass. Architect taking bids due January 28th.

Building, Fifth and Linden streets, Camden, N. J. Architect, not yet selected. Owner, Morris A. Sharsik, 1324 Walnut street, Philadelphia. Work contemplated.

Garage, 772 Wright street, Camden, N. J. Architect, Clarence Wunder, 1520 Locust street, Philadelphia. Owners, Yellow Taxi Cab Co., 1730 North Broad street, Philadelphia. Brick, steel, cut stone, cast stone, 2 stories and basement, 160x50 feet, slag roof, cement floors, hollow tile, metal lath, tile work, rolled steel sash, metal bulks, ornamental iron work, concrete blocks, area gratings, steel partitions, metal lockers, rolled steel doors. Architect taking bids due February 1st.

Residences (2), 1229-31 Dayton street, Camden, N. J., $10,000. Architect, private plans. Owner, Ludwig Gabowski, 1482 Kenwood avenue, Camden, N. J. Block, 2 stories, 16x53 feet, slag roof, hot water heat, electric light. Permit granted.

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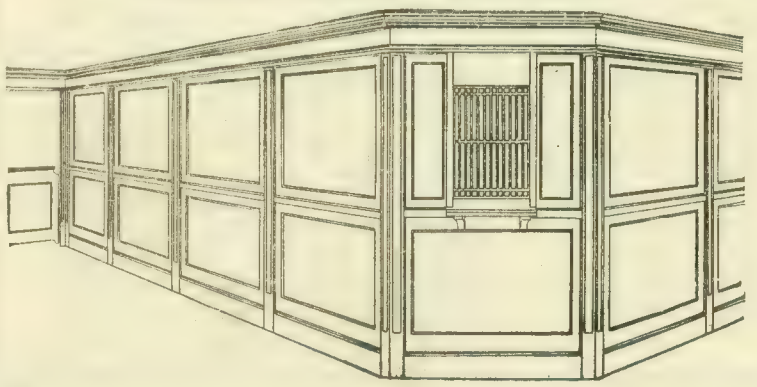
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Columbia Avenue, Howard to Waterloo Streets

Residences (2), 2910-12 North Constitution Road, Camden, N. J., $8,000. Architect, private plans. Owners, Eugene Brunner & Son, 2760 North Congress Road, Camden. Block, 2 stories, 16x40 feet, slag roof, hot water heat, electric light, garages, 1 story, 18x18 feet. Permit granted.

Dining Hall, Home for Feeble Minded, Vineland, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Lowest bidders: Thompson-Lockhart Co., Fifty-seventh and Walnut streets, Philadelphia, $51,389. Plumbing, William L. Boggs, Vineland, N. J., $1,880. Heating, William L. Boggs, Vineland, N. J., $4,200. Electric, Lyon Elec. Appliance Co., Bridgeton, N. J., $590.

Building, Phillipsburg, N. J. Architect, private plans. Owners, Ingersoll-Rand Co., Phillipsburg, N. J. Reinforced concrete, 3 stories and basement, 60x118 feet, Barrett Specification roof, cement floors, hollow tile. Owners taking bids due February 1st.

New Jersey Contracts Awarded

Rectory, Collingswood, N. J. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. John's Roman Catholic Church, Rev. J. J. O'Farrell, Collingswood. Stone, 2 stories, hollow tile and plaster attic, 32x35 feet, black slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded Sutton & Stephenson, 1317 Washington avenue, Philadelphia.

Buildings (2), Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton, N. J. Owners, Trenton Potteries, North Clinton and Ott streets, Trenton, N. J. Fireproof, 1 story, 40x400 feet, 80x80 feet, tile and slag roof, concrete floors, electric light, steel sash, fire doors. Contract awarded to J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J.

Dante Hall and School, Mississippi avenue, Atlantic City, N. J. Architect, A. F. Amodio, Commercial Building, Atlantic City, N. J. Owners, St. Michael's Church, Rev. J. Quarrenber, Atlantic City. Steel, limestone, granite, 3 stories, 42x111 feet, Barrett roof, maple floors, safety treads, metal weather strips, waterproofing and dampproofing, ornamental iron, concrete stairs, bond, skylights, tile and marble, metal lath, Warren-Webster heat, electric light. Contract awarded to Abacus Const. Co., Arkansas avenue, Atlantic City.

Hotel (add. and alts. to Foundations) and New Seventh and Eighth Floors, Atlantic City, N. J. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City. Owners, Hotel Knickerbocker, Tennessee avenue and Boardwalk, Atlantic City, N. J. Brick, steel, seventh and eighth floors add., 224x45 feet, wing 93x60 feet. Contract awarded to J. Mathis & Son, Guarantee Trust Building, Atlantic City.

Store (add. and alts.), 1723 Atlantic avenue, Atlantic City. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owners, Guarantee Clothing Co., care of architect. Brick, 1 story, 30x20 feet, slag roof, heating extension, electric light, tile and marble, plate glass. Plans in progress. Contract awarded to S. Dolinsky, 2 North Vermont avenue, Atlantic City.

Store and Apartment (alts. and add.), Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, I. N. Agrons, care of architect. Brick, steel, 4 stories, 50x100 feet, slag roof, hardwood floors, hollow tile, oil burning heat, electric light, metal lath, tile and marble work. Contract awarded to P. G. Hannum, Georgia avenue, Atlantic City.

Laundry (add.), Van Hook street, Camden, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, Domestic Laundry, Fred Fries, on premises. Concrete, block, steel, stucco, 2 stories, 75x80 feet, slag roof, concrete floors, roof ventilators, terra cotta, electric light, rolled steel sash, skylights. Contract awarded to Fred Fries, Camden, N. J.

Residence, Collingswood, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owner, Dr. Hubert MacGeorge, 1252 Park Boulevard, Camden, N. J. Brick veneer, 2½ stories, 30x40 feet, asbestos roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Richartz & Furner, 1838 Fillmore street, Camden.

Residences (10), (5) 3212-20 Saunders street and (5) 369-77 North Thirtythird street, Camden, N. J., $50,000 total. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Dodd, Alexander & Van Derboight, Camden, N. J. Brick, 2 stories, 18x38 feet, slag roof, hot water heat, electric light. Contract awarded to Clayton Dawson, 105 North Forty-second street, Camden.

Building, 997 North Twenty-fourth street, Camden, N. J., $4,300. Architect, Arthur B. Gill, 328 Market street, Camden, N. J. Owner, Paul Reihmann, 114 North Twenty-fifth street, Camden, N. J. Block, 2 stories, 30x40 feet, slag roof, electric lighting. Contract awarded to Rubright & Reber, 993 North Twenty-third street, Camden, N. J.

Residences and Garages (2), 1400-02 Van Hook street, Camden, N. J., $10,500. Architect, Harold A. Allen, 526 Stevens street, Camden, N. J. Owner, Vincenzo Quatrocchi, Camden, N. J. Brick, 2 stories, 16x40 feet, garages 9x15 feet, slag roof, pine and cement floors, hot water heat, electric light. Contract awarded to Smith Brothers, 603 Park avenue, Collingswood, N. J.

Miscellaneous Construction News

Telephone Building, Capitol and Pierce streets, Washington, D. C. Architects, McKenzie & Voorhees & Gmelin, 1343 H street, N. W., Washington. Owners, Chesapeake & Potomac Telephone Company of New York, 723 Thirteenth street, Washington, D. C. Changes in plumbing, sprinklers, heating, plastering, marble work, terrazzo work, architectural iron work, metal windows, rolled steel shutters, painting, glazing, roofing, sheet metal work, mill work, hardware, elevator. Architects taking bids due January 28th. (Note extension of time and changes in specifications.)

Community Centers (6), location undecided. Architect, Edwin L. Rothschild, Bankers' Trust Building, Philadelphia. Owners, Talmud Torah Association, care of Jewish Federation, Ninth and Pine streets. Architect selected. Plans not yet started. Too early for details.

Residence and Garage, Winston-Salem, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, George W. Coan, Jr., care of architect. Hollow tile, stucco, 2½ stories (electric, plumbing, heating reserved), slate roof, hardwood floors. Plans in progress. Ready for bids in a month.

Office Building and Club House, Fourth street and Bay Shore Drive, Miami, Fla., $1,500,000. Architects, Stuckert & Co., Miami, Florida. Owners, Miami Ad Club Building Corporation, Miami, Fla. Will contain stores, offices, banquet hall, assembly rooms, gym and roof garden, 12 stories. Plans in progress.

(Continued from page 52)

of an old-fashioned land boom. In any case there is evidence of over-subdividing around a number of cities and the pushing of values upward to levels which are not likely to be justified by the development of the next five or ten years. Here again there is some hpoe of a certain moderating influence being exercised by responsible organizations and some hope also, in view of the strong credit situation and the high rate of national saving, of escaping some of the bad effects on general business of similar excesses in our past history.

Conclusion

If I may express my general conclusion in a brief paragraph, I believe that building activity, that is to say, actual construction operations, will continue on a high level certainly for another six months and probably also throughout practically all of next year. If we are able to avoid a serious credit stringency, building activity, by a process of shifting from one district to another and from one type of structure to another, by a reliance chiefly upon the tremendous volume of demand for normal replacements and the normal increase in population and prosperity, and by a more or less deliberate control of some of the excesses which are now apparent in certain quarters, will show a gradual tapering off instead of a drastic collapse, and should remain adequate in volume to avoid being the cause of a general business depression.

NATIONAL MONTHLY BUILDING SURVEY

Prepared by S. W. Straus & Co.

Official reports of building permits issued and plans filed in the leading centers of the country during the year 1925, verified predictions of a record-breaking year. Based on reports from 391 cities which comprise 81 per cent. of the population in all places of 8,000 or more, the volume of building in the United States for the year was approximately $6,500,000,000 as compared with the estimate made in this survey a year ago of $5,750,000,000 for the year 1924.

In the 391 centers which represent about 37 per cent of the entire population of the United States, the volume of construction officially reported was $4,451,959,830, compared with $3,740,791,486 in 1924, a gain of $711,168,354 or 19 per cent. These centers in December, 1925, reported a volume of building construction 15 per cent. greater than for December of the previous year.

Larger gains were revealed in the 25 principal building cities which reported permits issued amounting to $2,761,070,793, a gain of 21 per cent for the year.

New York for the first time in the city's history registered a billion-dollar building year. The value of plans filed

in the five boroughs was $1,030,655,076 compared with $837,661,941, the increase being 23 per cent.

An interesting feature was the report from Florida where the 16 leading cities reported $234,500,437 of permits issued, a gain of 219 per cent over 1924 when the same centers officially permitted $73,-528,991 of building. Miami's gain for the 12 months' period was 267 per cent.

The other outstanding features of the year's developments may be epitomized as follows:

Greatest increase in activity shown in the South where the huge developmental program of Florida and the commercial activity throughout the Southern States were responsible for a 50 per cent. increase over 1924.

An increase of 19 per cent. in the East where the intense activity in the highly prosperous, commercial and industrial area of Greater New York and Northeastern New Jersey accounted for more than half the total.

A substantial, well-distributed gain in the great Central district where the 1924 volume of construction, itself about 2 per cent. below that of 1923, was exceeded by 15 per cent.

In the Pacific West, a recovery of 6 per cent. over 1924 and a return to the 1923 level of building.

The greatest December on record, 15 per cent. above December, 1924, and following four fall months of exceptional activity.

Sufficient volume of building already permitted for or contemplated to give definite assurance of a very high rate of activity for the next several months.

A year of relative stability in building costs, with slight increases in building wages practically offset by moderate declines in the prices of some building materials.

In the building material market, a prospect of firmness with the possibility of price increases.

WHAT IS BEFORE US?

The close of 1925 completed the first quarter of the 20th century. In practically all lines of endeavor it has probably been the most revolutionary quarter century in history.

We who have lived through these twenty-five years have seen the growing use of electricity, the tremendous progress of automobiles, submarines, aeroplanes, radio, etc.

Many of the wonderful chemical and mechanical inventions have been of incalculable value to the building industry —concrete work in winter time is now a common practice.

Despite all talk about shoddy building (and much of it unfortunately is too true) we in the United States are building bigger and better today than ever before in the world's history.

What is in store for us in the next quarter century? If the progress of the first quarter is any criterion, the coming quarter will be a most prodigious one.

As far as construction goes, we are going to build better buildings both in appearance and actual construction. They will be more comfortable to live in and to work in. Perhaps there is no industry that has come so forward as that of the building industry which now stands only second to that of agriculture.

As we stand on the threshold of our new year, we find the prospects for general prosperity in the United States exceedingly bright, and this means of course that the building industry will get its full share.

1925 closed as a most prosperous year for builders. No one ever dreamed we would have over a six billion dollar year. We did. What has once been done can be equalled again.

There is every indication that 1926 will be a very good building year and it will be so even though it does not come up to the 1925 record.

Here and there in different localities there is a slight rumbling of local labor trouble. There is some little demand for a higher wage. In other places there is agitation for a five-day week—it is to be hoped that these ill-advised men will early see the false economic value of creating an artificial labor shortage by such means.

Our manufacturers and supply dealers are prepared to take care of all demands, but to avoid delays due to freight congestion it is well to place orders as far in advance as is reasonably possible. Remember that if everybody places orders at the same time transportation will be choked.

It will be a good slogan to keep in mind for this year—and every other year following—to talk "quality construction" rather than "cheapness," get the thought over to the public that to build well is the cheapest.

Let us strive not only to save by better methods of construction, but by taking better care of our men. Use every means possible to prevent accidents and that means safe methods of building.

Building in general is on a very sound basis and money is easily obtained for any worthwhile project. As in every good thing the shady operator has come into the building game and some slick salesmen are employed to sell mortgage bonds to the public, the total of which is more than the cost of construction of building plus the land! The operators are safe. Builders everywhere should expose and discourage such attempts in their localities. Do not let the public lose confidence in the integrity of the building industry.—*Building Age and National Builder.*

CLEANING A STONE BUILDING WITH STEAM

(Bureau of Standards and Indiana Limestone Quarrymen's Association Cooperate in successful experiment on Baltimore Bank Building.)

The use of steam from a boiler blown directly against the stone through a simple nozzle has been found by the Bureau of Standards, Department of Commerce, to be a very effective way to remove dirt from the walls of a stone building.

To meet the changing demands of present day commercial conditions many old buildings are being altered or remodeled. In order to eliminate the undesirable contrast always present in such cases between the old dirty surfaces and the new stone put in the walls some kind of cleaning of the old portions is generally carried out. Because of the detrimental effects of acid cleaning or sand-blasting, scrubbing with soap powders and hand brushes is customarily employed. This method is effective but slow and laborious, and in an effort to devise a faster and more efficient means of cleaning limestone, experiments with the use of live steam were conducted under the co-operative research program of the Bureau of Standards and the Indiana Limestone Quarrymen's Association, Bedford, Indiana.

An interesting demonstration of this experimental work was the steam cleaning of a remodeled bank building in Baltimore, Md., where the scheme was given a practical trial under commercial conditions. The use of steam at 80 pounds per square inch pressure, the pressure ordinarily used in small portable boilers blown directly against the stone through simple nozzles made of galvanized pipe fitted to the end of ½-inch steam hose lines was found to be very effective in removing the twenty-year accumulation of dirt on this Indiana limestone building. Although the structure was heavily carved and moulded the work was done rapidly with inexperienced labor, the engineer firing the boiler being the only skilled worker on the job. The cost of the job was somewhat higher than a bid received for acid cleaning which was due in part to its experimental character, this being the first complete building ever cleaned with steam. The final color of the stone was not so bright as that of new stone work, but was considered entirely satisfactory since it combined cleanliness with the appearance of age which is usually thought desirable in stone buildings. The successful use of steam in this practical test leads to the conclusion that for the removal of dirt from old limestone buildings, the steam cleaning process would, in most cases, be an economical and effective method to employ with the added advantage that it does not damage the stone.

Reference Directory for Architects, Builders and Owners

ACCOUNTANT.
R. Landergin.....5523 Hadfield St., Phila.
ARCHITECTURAL IRON WORK
Quaker City Art Metal Works,
2445 N. Second St., Phila.
ARTESIAN WELLS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.
ARTISTS' AND ARCHITECTS' SUPPLIES.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Robbins, Chas. H., Co.....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
BOILER AND PIPE COVERINGS.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
BRICK.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
BRICK (Face, Common, Paving).
Ketcham, O. W. .....121 N. 18th St., Phila.
BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.
Joseph Rotornado.....4740 Milnor St., Phila.
BUILDING BLOCKS.
Victor Concrete Products Co.,
Primos Station, Del. Co., Pa.
BUILDERS' SUPPLIES.
Service Supply Corporation,
20th and Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CABINET WORK.
Huskey Mfg. Co. ..Columbia and Howard St., Phila.
CAST STONE
Vineland Architectural Cast Stone Works,
Vineland, N. J.
CEMENT.
The Van Sciver Corporation.
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CEMENT WORK.
D'Lauro, John .....55 E. Mermaid Lane, Phila.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.Juniper and Cypress Sts., Phila.
COLD STORAGE (Insulation and Covering)
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
COLUMNS (Metal).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
CONCRETE SEWER PIPE.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.
CONCRETE WORK.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.. Juniper and Cypress Sts., Phila.
CONTRACTORS' EQUIPMENT
Devitt, Paul J. .....1101 S. 2nd St., Phila.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation,
20th and Venango Sts., Phila.
CORK FLOORING
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
CURTIS WOODWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.
DAILY BUILDING NEWS.
Building News Pub. Co. ...1530 Chestnut St., Phila.
DAMPPROOFING.
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger.....829 N. 3rd St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1505 Race St., Phila.
DOOR BEDS
Murphy Door Bed Co.....512 Bulletin Bldg., Phila.
DRAWING MATERIALS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F. Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
EXCAVATING.
Harsch, Wm. F. ....Narberth, Pa.
McCarrick Bros.....3240 N. Fox St., Phila.
Sanitary Engineering Co.....40 S. 52nd St., Phila.
FENCES.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Potts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St,. Phila.
FINANCING (BUILDING)
Commercial Advance Corp., 1011 Chestnut St., Phila.
Abe Kolsky .....9th & Walnut Sts., Phila.
Mortgage Extension Corp.,.1011 Chestnut St., Phila.
FIREPLACE EQUIPMENT.
F. R. Rosen.....5327 Market St., Phila.
FIREPROOFING.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
FLAG POLES.
J. E. Lingo & Son .....Camden, N. J.
FLOOR HARDENER.
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Concrete Waterproof Paint Co...829 N. 3rd St., Phila.
Truscon Laboratories.....1505 Race St., Phila.
FLOOR PLATES.
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.
FLUE LINING.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Cox, Abram, Stove Co., .Ameri n and Dauphin Sts.
Fleck Bros. .....44 N. 5th St., Phila.
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Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.
GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.
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Abram Cox Stove Co.,
American and Dauphin Sts., Phila.
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Richardson & Boynton Co. .....1308 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.
GRADING
Harsch, Wm. F. .....Narberth, Pa.
GRANITE
John Meehan & Son.....916 W. Dakota St., Phila.
Vineland Architectural Cast Stone Works,
Vineland, N. J.
HARDWARE (Builders').
Devitt, Paul J. .....1101 S. 2nd St., Phila.
HAULING CONTRACTORS.
McCarrick Bros.....3240 N. Fox St., Phila.
HEATING CONTRACTORS.
Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....6622 Woodland Ave., Phila.
HEATING BOILERS.
Cox, Abram, Stove Co.,
American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
HOLLOW TILE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.
HOT WATER GENERATORS.
Edwin Elliot & Co. .....1011 Chestnut St., Phila.
INSURANCE.
Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
1711 Chestnut St., Phila.
Smith-Austermuhl Co. .....Camden, N. J.
IRON AND STEEL BARS AND PLATES.
DeCou, Richard.....11th and Noble Sts., Phila.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Thos. H. Livezey & Co.,
Luzerne and American Sts., Phila.
Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
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1844 W. Juniata St., Phila.
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1505 N Mascher St., Phila.
Potts, Horace T., & Co....Erie Ave. and D St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.
KITCHEN CABINETS.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
LEVELS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
LIGHTING FIXTURES.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
LIGHT IRON CONSTRUCTION.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
LINOTILE.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
LUMBER.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Ketcham, Howard.....3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.
LUMBER (Wholesale).
J. Randall Williams & Co.,
1031 Commercial Trust Bldg., Phila.
MARBLE AND MOSAIC.
Acorn Tile Co. .....Clementon, N. J.
Belfi Bros. Co. .....1923 Market St., Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. .....433 Spruce St., Phila.
Roman Mosaic & Tile Co. .....435 Green St., Phila.
Wm. G. Wilson.....2313 Walnut St., Phila.
MASON BUILDER.
D'Lauro, John .....55 E. Mermaid Lane, Phila.
METAL LATH.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
John S. Raynor.....2300 E. Lehigh Ave., Phila.
METERS.
Phila. Meter Co. ....Real Estate Trust Bldg., Phila.
MILLWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.
ORNAMENTAL IRON.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.
PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.
PHOTOSTATS.
Weber, F., Co. .....125 S. 12th St., Phila.
PLASTERER.
Joseph Rotornado.....4740 Milnor St., Phila.
PLASTERERS' SAFETY CLIPS.
John S. Raynor.....2300 E. Lehigh Ave., Phila.
PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., Phila.
PORCH ENCLOSURES.
Malia, Thomas .....226 W. Mentor St., Phila.
RADIATOR CABINETS.
Radiator Cabinet Co. .....Drexel Bldg., Phila.

RANGES.
Cox, Abram. Stove Co., American and Dauphin Sts.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ....1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.
REFRIGERATORS.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co.....1026 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
REINFORCING BARS.
Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
Nicetown Plate Washer Co., Inc.,
1844 W. Juniata St., Phila.
Penn Steel Service Co. .....Perry Bldg., Phila.
H. T. Potts & Co. ....Erie Ave. and "D" St., Phila.
ROAD BUILDING.
Harsch, Wm. F.....Narberth, Pa.
ROAD MACHINERY.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation,
20th and Venango Sts., Phila.
ROOFING.
Brinkman Bros. .....2615 Frankford Ave., Phila.
Benjamin Foster Company,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.
ROOFING MATERIALS.
Service Supply Corporation,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.
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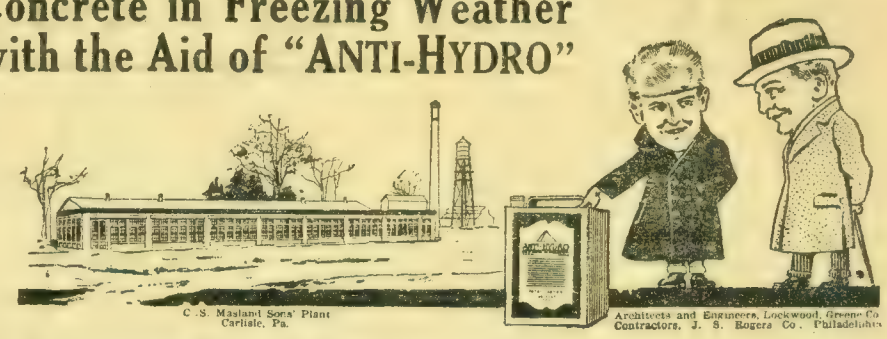
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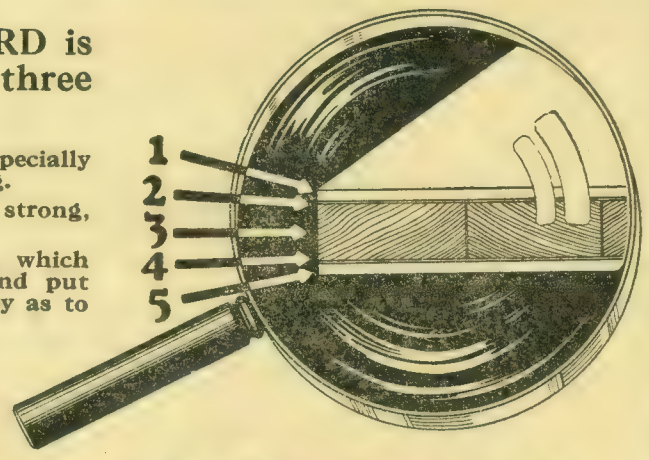
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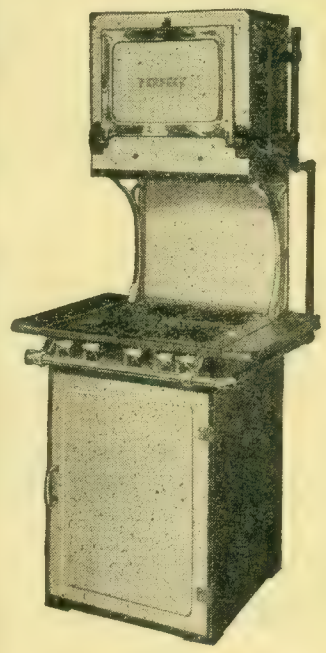
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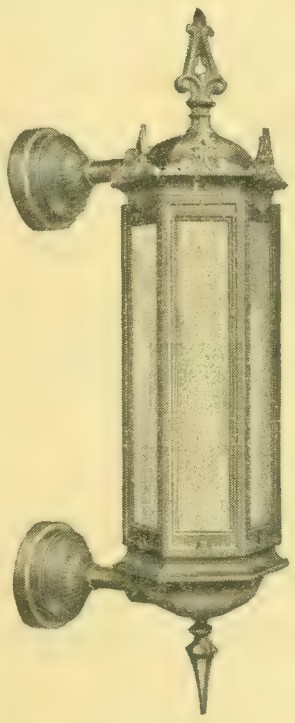
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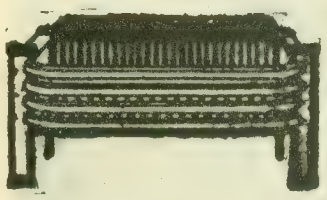
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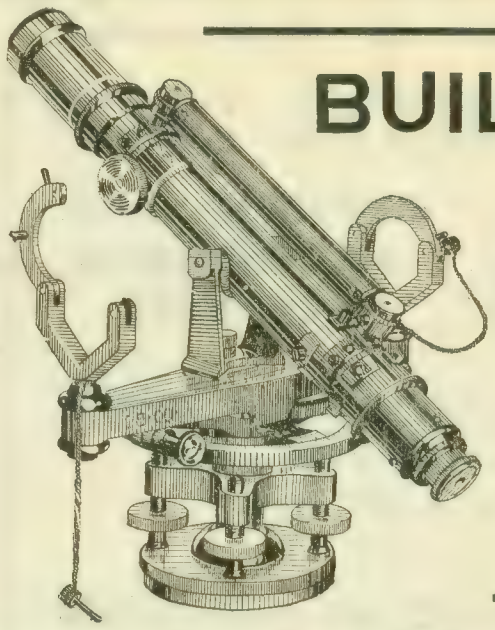
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 5

PHILADELPHIA
February 3, 1926

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As The Editor Sees It

NINETEEN TWENTY-SIX TO BE ANOTHER SIX BILLION DOLLAR BUILDING YEAR

Each year for the past five years The Architectural Forum of New York has conducted an extensive survey among architects and builders to determine the amount of building construction contemplated for the ensuing year. The method used includes the obtaining of confidential reports from thousands of sources covering six geographical divisions of the United States in 19 building classifications. These reports are carefully tabulated and correlated and the totals determined by a careful system of weighting. Thus the final forecast figures are established after months of careful research work.

Each Forum forecast during this five-year period has proven to be amazingly close to the actual figures shown at the end of the year; and in all cases conservative, so that this survey has become recognized as the most authoritative presentation of probable building activity. The allocation of activity throughout the country is an almost certain indication of what will actually take place in the building industry.

Review of 1925 Building Construction

In view of the fact that The Forum Forecast for 1926 indicates another six billion dollar building year, probably equal to the record-breaking activity of 1925, it will be interesting to review briefly the building activity of the year 1925 in order that later comparisons may be clear. The figures for the year 1925 indicate that 6½ billion dollars were spent in the United States.

At the beginning of the year 1925 all conditions indicated that last year would probably equal 1924, which established a record up to that time; but no one anticipated completely the amazing volume to which the building totals have climbed. Records were broken everywhere during 1925.

Everyone connected with or interested in the building construction industry knows of the phenomenal activity which was apparent during the year 1925. Owing to the limitations of space it is not possible to present here the full details of last year's activity, but the great interest of the building fraternity today is expressed in the question, "What will occur in 1926?"

Probable Building Total for 1926

The Architectural Forum has compiled figures received from anticipated expenditures for new buildings during the year 1926, classified according to 19 types of structures and divided into six geographical divisions of the United States. This tabulation shows the amazing total of $5,584,782,500, which will pass over the boards of architects and into actual construction during the year 1926. In addition to this vast sum to be spent for building materials and labor there must be considered the fact that in the small house field and that of industrial construction there is considerable building not developed from architects' plans, probably totaling another half-billion dollars.

Thus it is predicted that 1926 will be another six billion dollar building year with certain changes in the relative proportions of activity in building types and districts as explained in the following paragraphs and tables.

Changes in Public Demand for New Buildings

Each year the grand total of The Forum forecast is broken up into percentage

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showing the anticipated activity in new building construction for each of the 19 building types in the six established geographical divisions of the United States. By comparing these percentages for 1925 and 1926 it is possible to ascertain the changing public demand for new buildings and to establish for each district the relative activity which may be expected.

The first interesting comparison is to learn what, if any, shifting of public demand has occurred in building requirements for the following six geographical divisions of the United States:

1. Northeastern States, including Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut.

2. North Atlantic States, including New York, New Jersey, Pennsylvania, Delaware, Maryland, District of Columbia.

3. Southeastern States, including Virginia, North Carolina, South Carolina, Georgia, Florida.

4. Southwestern States, including Kentucky, West Virginia, Tennessee, Alabama, Mississippi, Louisiana, Texas, Oklahoma, Arkansas.

5. Middle States, including Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas.

6. Western States, including Montana, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada, Idaho, Washington, Oregon, California.

The following table shows a comparison of public demand for new buildings in 1925 with that of 1926 for each of the six districts indicated above. In other words a comparison of the relative demand for new buildings in each district for 1926 as compared with 1925. The changes in these percentages forecast the changes of construction activity from a geographical viewpoint.

Public Demand for New Buildings

	Percent. 1925	Percent. 1926
1. Northeastern States	8.4	8.1
2. North Atlantic States	36.3	36.6
3. Southeastern States	3.6	5.9
4. Southwestern States	6.3	6.4
5. Middle States	32.4	31.4
6. Western States	12.9	11.6

The above comparison shows that there will be approximately the same relative building activity in each of the six geographical divisions of the United States during 1926 as compared with 1925, with some decrease in the Northeastern and Middle States and a considerable increase in the Southeastern States (due to activity in Florida).

Character of Anticipated New Building Construction

In the course of the research work involved in establishing this forecast for 1926, The Architectural Forum has had the opportunity to make an interesting series of observations as to the changing character of new building in the United States. The accompanying percentage tables indicate public demand for new buildings; but it may also be noted that the general character of materials and workmanship in buildings is constantly improving.

The high cost of building, together with increased real estate values, has during the past few years provided a forced education for the investing public in this field, indicating the fallacy of poorly considered planning and the use of inferior materials and workmanship. The great effort in the planning of buildings today is to eliminate all waste space and provide a maximum of rental or utility efficiency at the same time attempting definitely to reduce depreciation and maintenance cost through good architectural specifications.

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(Continued on Page 79)

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Apartment House, Fifty-fourth and Wynnefield avenue, Philadelphia. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, J. L. Degler, Boyertown, Pa. Brick, steel, 3 and 1 stories, 47x54 feet, 26x52 feet, 46x50 feet, 52x38 feet, tile roof, hardwood floors, hollow tile, safety treads, architectural terra cotta, ornamental iron work, iron stairs, tile work, metal lath, steam heat, electric light. Plans in progress.

Christian Association Building, Northwest Corner Thirty-sixth and Locust streets, Philadelphia, $250,000. Owners, Christian Association of University of Pennsylvania, on premises, care of Benjamin West Frazier, chairman. Raising funds. Work contemplated.

Federal Building (alts. and add.), Ninth and Market streets, Philadelphia, $300,000. Architects, Treasury Department, United States Government, Washington, D. C. Owners, United States Government, Washington, D. C. General alterations, 2 or 3 stories additional. Work contemplated.

Pier No. 80, South Wharves, Philadelphia, $3,809,250. Owners, Department of Wharves, Docks and Ferries, Municipal Pier, Philadelphia. Sub-structure, shed, paving, plumbing, heating, etc., water supply and two bulkheads. Plans in progress.

Pier No. 82 (improvements), South Wharves, Philadelphia, $2,200,250. Owners, Department of Wharves, Docks and Ferries, Municipal Pier, Philadelphia. Shed, paving, plumbing, heating, etc., extension of substructure to provide for pier 1,000 feet long. Plans in progress.

Theatre, Thirty-first and Diamond streets, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Green & Altman, Hyman Building, Philadelphia. Brick, steel. Plans in progress.

Apartment House and Stores, 1227-29 Bainbridge street, Philadelphia. Architect, Edward L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Herman B. Feldman, on premises. Brick, 3 stories, 26x120 feet, slag roof, oak and pine floors, tile work, ornamental iron work. Owner taking bids due as soon as possible.

Garage, rear 443 Carpenter street, Philadelphia. Architect, J. Linard Canarroe, 225 South Sydenham street, Philadelphia. Owners, Mr. and Mrs. William H. Stuart, on premises. Stone, steel, 1½ stories and basement, 26x26 feet, variegated slate roof, cement floors, painting and glazing, plumbing, electric light, metal lath. Architect taking bids due February 12th.

Supplies, Philadelphia. Purchasing agent, E. J. Lafferty, 312 City Hall. Owners taking bids due February 8th at noon. Laboratory supplies, lumber, oak and hickory lumber, refilled spindles and push brooms. Certified check 5 per cent. of bid.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Surveys, 232 City Hall. Owners taking bids due February 4th at noon. Certified check 5 per cent. Asphalt paving, asphalt repaving, redressed granite block repaving, grading Holmes avenue from Holmes Circle to Willet road. Demolition of Rhawn Street Bridge. Inquire Room 232.

Garage, Germantown, Philadelphia. Architect, J. Linard Canarroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Architect taking bids due February 12th.

Residence and Garage, Oxford avenue and Horrocks street, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Mrs. Bertha B. Erdrich, care of architect. Stone, 2½ stories, 43x36 feet. Architect taking bids due February 8th.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Owners taking bids due February 10th at noon. Schedule A branch sewers, storm water culverts, 40th Ward lowland drainage. Sewers and pumping equipment, South Philadelphia improvement, south of Pattison avenue and west of Broad street. Sewers and pumping station, South Philadelphia improvement, south of Packer avenue and west of Broad street. Curbing and paving, Delaware avenue. Certified check 5 per cent. Inquire Room 416.

Residence (alts.), 126 South Nineteenth street, Philadelphia. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owner, Charles A. Verna, care of architect. Carpentry and mill work, electric work, plumbing, painting. Architect taking bids due February 4th.

Apartment House, Thirty-third and Columbia avenue, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owners, Parkway Apartment Corporation, care of architect. Brick, terra cotta, steel, concrete, 14 stories (400 apartments), 110x170 feet, builtup roof, tile and composition roof, hardwood, tile, cork tile floors, 4 passenger elevators, 1 freight elevator, concrete footing, swimming pool, steam heat, electric light, oil burning, tile and marble work, vault lights, kalamein doors, plate glass, copper bulks, ornamental iron work, incinerator, closet beds, refrigerator, built-up kitchen equipment, travertine work. B. Bornstein, 1319 Wingohocking avenue, Philadelphia, taking sub-bids due February 11th. Plans are posted in architect's office for convenience of sub-contractors.

Bridge on line with Rising Sun avenue, over Richmond Branch of Reading Railway, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Owners taking bids due February 10th at noon. Certified check 5 per cent. of bid. Inquire 416.

Building, Northeast Corner Twentieth and Montgomery avenue, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, name withheld. Brick, steel, 1 story, 70x67 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, hollow metal skylights. Architects taking bids due Feb. 9.

Church (alts. and add.), Twenty-second above Fairmount avenue, Philadelphia. Architect, Osborne H. Graves, 112 Merion avenue, Narberth, Pa. Owners, Welsh Presbyterian Church, on premises. Concrete and cement work, hollow tile, plastering, iron work, steel sash, stair work, painting and glazing, hardware, electric work, dampproofing, stone and brick work, limestone, cut stone, area gratings, metal lath, roof ventilators, slate roof. Architect taking bids due February 10th.

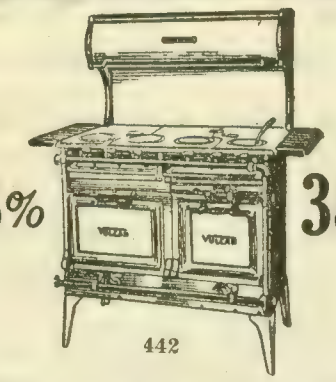
Service Building and Garage, 1515 North Broad street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, Adolph E. Albus, care of architect. Brick, reinforced concrete, limestone, granite, 4 stories and basement, 239x60 feet, slag roof, composition and cement floors, safety treads, metal lath, marble and terrazzo work, rolled steel sash, tin-clad, kalamein and hollow metal doors, bond, iron stairs, ornamental iron work, safety treads, integral waterproofing, ornamental terra cotta, rolling steel shutters, steel partitions, area gratings

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(electric work reserved) (heating, plumbing, elevator separate). Architects taking bids due February 9th before 11 A. M.

Manufacturing Building, Gaul and Venango streets, Philadelphia. Engineer, Joseph K. Long, 1619 North Robinson street, Philadelphia. Owner, J. E. Kennedy, Jr., 406 South Van Pelt street, Philadelphia. Brick, steel, 2 stories, 216x60 feet, slag roof, cement and plank floors, elevators, ribbed glass, plumbing, steam heat, oil burning, electric light, rolled steel sash. Engineer will build.

Store Building, 3055-57 Kensington avenue, Philadelphia. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Brick, cut stone, steel, limestone, 3 stories and basement, 32x66 feet, slag roof, oak and pine floors (plumbing, heating and electric separate bids), painting and glazing, metal lath, rolled steel sash, ornamental iron work, elevator doors. Architect taking bids due February 9th.

Residences (32), Foulkrod, Langdon and Summerdale streets, Philadelphia, $149,000. Architects, private plans. Owner, Frank Kaiser, 1517 South Sixth street, Philadelphia. Brick, (2) 3 stoies, 16x45 feet 6 inches, (30) 2 stories, 15x31 feet, 12x14 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, Southeast Corner Vaux and Bowman streets, Philadelphia, $9,000. Architect, private plans. Owner, Samuel D. Levin, 406 City Center Building, Philadelphia. Brick, 3 stories, 19x38 feet, hot water heat, electric light, hardwood and pine floors. Permit granted.

Residences and Stores (5), Rising Sun avenue, South of Albanus, $7,500 each. Architect, private plans. Owners, Feineman & Dinerman, 303 Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 16x47 feet, 13x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, 820 Christian street, Philadelphia, $4,000. Architect, private plans. Owner, Pasquale Ingenito, on premises. Brick, 2 stories, 16x42 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residence, East side Paxon street, North of Warrington avenue, $3,000. Architect, private plans. Owner, Y. V. Eekelen, 5454 Baltimore avenue, Philadelphia. Brick, 2 stories, 20 feet x irregular, 11x12 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Stores and Residences (2), Rising Sun avenue and Albanus street, $15,900 total. Architect, private plans. Owners, Dinerman & Feineman, 303 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, (1) 34x27 feet, (1) 16x39 feet, slag roof, pine and hardwood floors, hot water heat, electric light. Permit granted.

Shop and Storage Building (add. and alts.), 322 Spruce street, Philadelphia, $2,000. Architect, private plans. Owner, L. W. Adelman, on premises. Brick, 2 stories add., 17x32 feet, 18x16 feet, general alterations. Permit granted.

Residence, North side Haines street, East of Chew street, $12,000. Architect, private plans. Owner, N. Di Tommaso, 305 East Price street, Philadelphia. Stone, 3 stories, 23x40 feet, slate roof, hardwood and pine floors, electric light, tile work. Permit granted.

Residences (3), 4600-02-04 Paschall avenue, Philadelphia, $4,500 each. Architect, private plans. Owner, Santo Mazzeo, 4616 Paschall avenue, Philadelphia. Brick, stone, 2 stories, 15x28 feet, 12x17 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence (alts.), 807 South St. Bernard street, Philadelphia, $3,000. Architect, private plans. Owner, Louis Stein, 804 South Forty-ninth street, Philadelphia. General alterations. Permit granted.

Residences (56), Stores and Residences (4), Fifty-second, Diamond street, Lebanon and Bryn Mawr avenues, Philadelphia, $307,000. Owner, A. Koch, Fifty-second and Diamond streets, Philadelphia. Brick, 2 and 3 stories, slag roof, hardwood and pine floors, hot water heat, electric light, various sizes. Permit granted.

Store, 5450 Germantown avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Glynden Priestman, on premises. Carpentry, mill work, brick work, electric light, plumbing. Architect taking sub-bids.

Residences (2), Solth side Shelmire avenue, West of Montour, Philadelphia, $5,500 each. Architect, private plans. Owners, Betzel Brothers, 1225 Shelmire avenue, Philadelphia. Frame, 2 stories, 26x41 feet, hardwood floors, hot water heat, electric light. Permit granted.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Low bidders: Schedule A—Branch sewers: Beulah street, Johnstone to Byler; Frank Beradi, 1913 Mifflin street, Philadelphia, $5,676.34. Boudinot street, Roosevelt Boulevard to Ashdale; A. Di Sandro & Son, 3906 North Fifth street, Philadelphia, $10,758. Champlost avenue, Ninth street to Marvine street; Leva Brothehrs, 3851 North Tenth street, Philadelphia, $20,562. Fifty-seventh street, Haddington street to Nassau street; Higgins & Reilly, Real Estate Trust Building, $15,223. Folsom street, Forty-

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eighth to Forty-ninth street; A. Mattio, 310 North Sixtyfifth street, Philadelphia, $4,082.24. Huchinson street, Johnson to Bigler; Clifton Construction Co., Clifton Heights, Pa., $5,519.50. Kenmore road, Lansdowne avenue to Media street; A. Perna & Son, 752 South Tenth street, Philadelphia, $7,476. L street, Torresdale avenue to Lycoming street; Frank Beradi, 1913 Mifflin street, Philadelphia, $21,087.70. Ninth street, Johnston to Bigler; Frank Beradi, 1913 Mifflin street, Philadelphia, $5,970.99; Percy street, Johnston to Bigler; Frank Beradi, 1913 Mifflin street, Philadelphia, $6,511.32. Sixty-ninth, Chester avenue to Regent, Sixty-ninth to Sixty-eighth; Higgins & Reilly, Real Estate Trust, $7,314.75. Smedley street, Sixty-fifth avenue, North to Sixty-sixth avenue; E. F. Bennis, Washington and Chew streets, Philadelphia, $12,324.35. Spencer street, Fourth to Fifth streets; Batterio & Ponterello, care of owner, $6,932.70. Vernon road, Chew to Boyer; E. F. Bennis, Washington lane and Chew street, $8,169.75. Wadsworth, Crittenden street to Stenton avenue; A. J. Henderson, Washington lane, East of Chew street, $5,506.50. Removal of old and erection of new sewer, Warnock, Alder, Johnson and Bigler streets; Clifton Construction Co., Clifton Heights, Pa., $22,209.05. Furnish and placing inlets, laterals, etc.; F. T. Buckius, Kensington and Deal streets, Philadelphia, $40,050.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Office Building, Parkway, Fairmount avenue and Twenty-fifth street, Philadelphia. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, Fidelity Mutual Life Insurance Co., 112 North Broad street, Philadelphia, Mr. Walter Talbot, president. Reinforced concrete, brick, cut stone, granite, steel, 4 stories and loft and basement, 151x46 feet, wing 90x44 feet, 110x45 feet (plumbing, heating, electric and elevator reserved), tile and slag roof, cement and oak floors, safety treads, ornamental terra cotta, shoring, dampproofing, ornamental iron work, iron stairs, hollow steel doors, hollow metal sash, metal lath, tile and marble work, limestone, Duraflex and linoleum floors, area gratings, bronze work, painting and glazing, caulking. Contract awarded Turner Const. Co., 1713 Sansom street, Philadelphia.

Alterations, 2136 Market street, Philadelphia. Architect, Walter Hance, Holly Oak, Del. Owner, Philip Meriano, Esq., on premises. Steam heat, electric light, marble work, metal ceilings, bulk windows, plastering, hardware, painting and glazing, carpentry and mill work. Contract awarded Felix Claro, 10 South Eighteenth street, Philadelphia.

Stores (3) and Warehouse, Southwest Corner Fifteenth and Callowhill streets, Philadelphia. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, William F. Meeneham, care of architect. Brick, steel, limestone, 2 stories and basement, 24x16 feet (new addition), slag roof, pine and cement floors, plate glass, granite work, heating and lighting alterations, plastering, rolled steel sash, metal bulks, ornamental iron work, iron grills. Contract awarded Smith-Hardican Co., 1809 Callowhill street, Philadelphia.

Store and Storage Building (add. and alts.), 3008-10 Germantown avenue, Philadelphia, $10,000. Architect, private plans. Owner, J. Sewartz, 2916 North Fifth street, Philadelphia. Brick, 1 story, 28 feet 6 inches x 12 feet, general alterations. Contract awarded to Frank I. Wintz, Inc., 1618 North Twenty-seventh street.

Store and Residence (alts.), 2229 Columbia avenue, Philadelphia, $2,000. Architect, private plans. Owner, Charles Clere, 2237 Columbia avenue, Philadelphia. General alterations. Contract awarded to E. C. Durell, 1713 North Twenty-fourth street, Philadelphia.

Basement Church, Preston and Haverford avenue, Philadelphia. Architect, Clarence L. Caspary, 225 South Seventeenth street, Philadelphia. Owners, Beth Baptist Church, Rev. C. C. Scott, 4121 Powelton avenue. Stone, brick, 1 story, 42x70 feet, slag roof, pine floors, vapor heat. Contract awarded J. F. Trent, 2041 Master street, Philadelphia.

Residence, Northeast Corner Ellicott road and Orchard lane, Philadelphia, $12,000. Architect, private plans. Owner, Thomas E. Coale, Torresdale, Pa. Frame, 3 stories, 56 feet 9 inches x 24 feet 4 inches, 19 feet 6 inches x 8 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Allen Scull, 4918 Osage avenue, Philadelphia.

Store and Storage (add.), 65 North Second street, Philadelphia, $9,000. Architect, pri-

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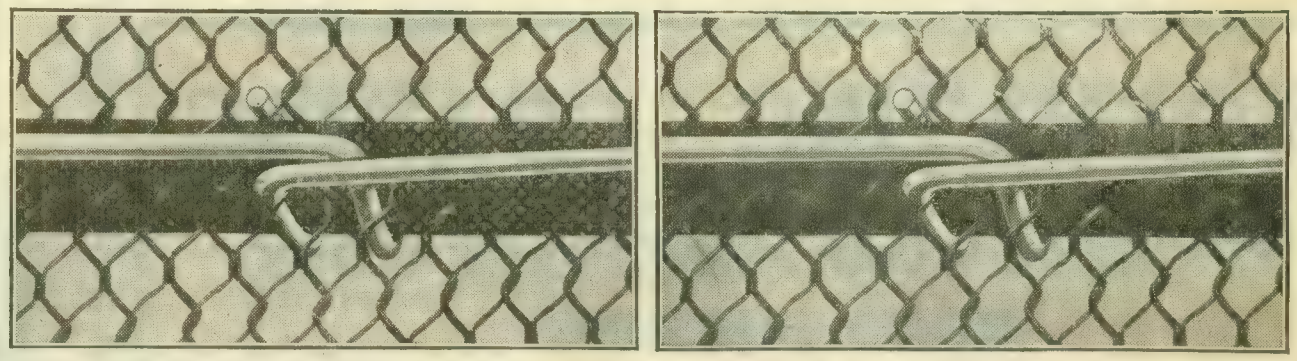
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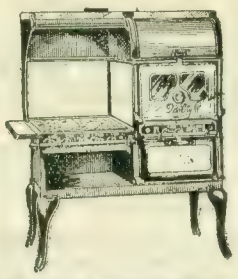
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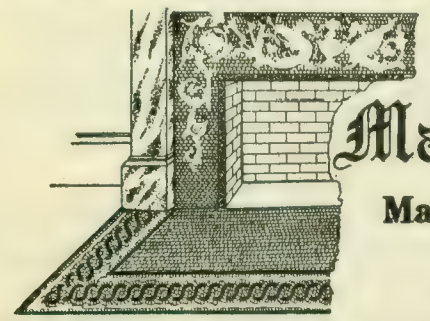
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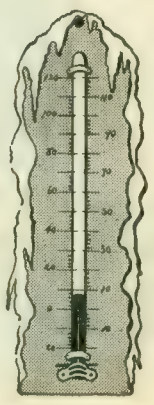
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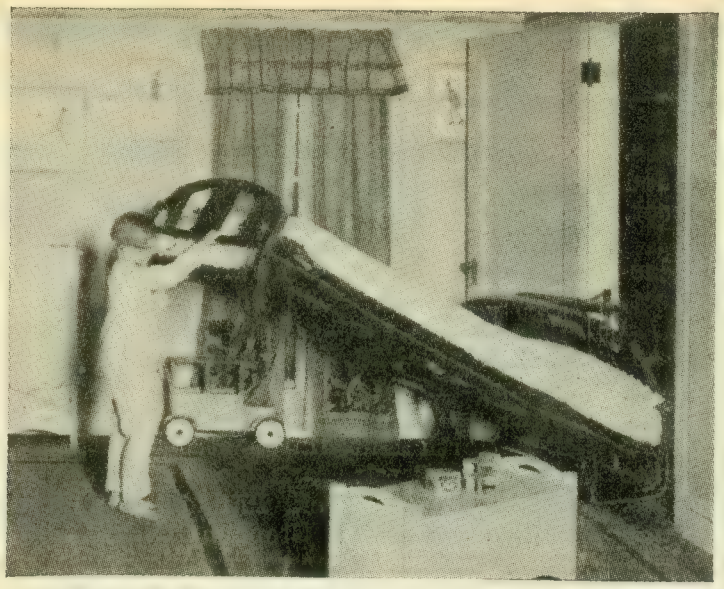
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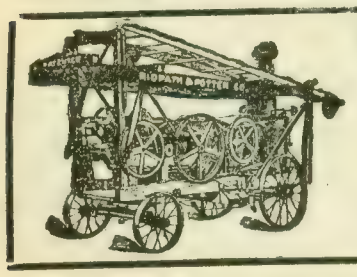
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vate plans. Owner, Samuel Zeid, on premises. Brick, 4 stories, 15x10 feet. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Store and Residence (alts.), 3649 Lancaster avenue, Philadelphia, $3,000. Architect, private plans. Owner, William Martin, 3649 Lancaster avenue, Philadelphia. General alterations. Contract awarded to Marmucci & Juliano, 1118-20 Dickinson street.

Store and Residence (alts.), 1920 West Susquehanna avenue, $3,000. Architect, private plans. Owner, Mr. Steingardt, on premises. General alterations. Contract awarded to Joseph Sweet, 2549 North Spangler street, Philadelphia.

Store and Residence (add. and alts.), Southwest Corner Fifty-first and Chestnut streets, Philadelphia, $8,000. Owner, A. Florence Yerger Hagan, 5504 Chestnut street, Philadelphia. Brick, 1 story add., 17x11 feet, general alterations. Contract awarded to Charles H. Booker, 2257 North Uber street, Philadelphia.

Residence (add. and alts.), 829 Washington avenue, Philadelphia, $6,200. Architect, private plans. Owner, S. Margolis, 815 Washington avenue, Philadelphia. Brick, 3 stories add., 11 feet 9 inches x 24 feet 6 inches, general alterations. Contract awarded to B. Shestack, 6158 Locust street, Philadelphia.

Hospital (alts.), 3323 North Broad street, Philadelphia, $4,000. Architect, private plans. Owner, Henry Hinchcliffe, on premises. General alterations. Contract awarded to F. Wiggs & Sons, 340 Sentner street, Philadelphia.

Residence, 5721 Erdrick street, Philadelphia, $3,500. Architect, private plans. Owner, Nicholas J. Schneider, 2019 Bridge street, Philadelphia. Brick, 2 stories, 16x43 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Felix Tatko, 5103 Edmund street, Philadelphia.

Residence (add.), 621 West Cliveden avenue, Philadelphia, $3,200. Architect, private plans. Owner, Edward A. Steele, on premises. Brick, 2 stories, 12x22 feet, heating extension, electric light. Contract awarded to I. A. Dunkelberger, 71 Herman street, Philadelphia.

Manufacturing Building (alts.), Southeast Corner Swanson and Jackson streets, $3,000. Architect, private plans. Owners, Harshaw, Fuller & Goodwin, on premises. General alterations. Contract awarded to A. Raymond Raff Cont. Co., 1635 Thompson street.

Residence (alts.), 4850 North Front street, Philadelphia, $2,500. Architect, private plans. Owner, M. Queen, on premises. General alterations. Contract awarded to H. Ruben, 4843 North Hutchinson street, Philadelphia.

Cobb's Creek Park Golf House (alts. and add.), Cobb's Creek, Philadelphia. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Commissioners of Fairmount Park, City Hall, Philadelphia. Contract awarded to D. Lutz Co., Twenty-third and Chestnut streets, $24,280.

Residence (alts.) to Club House, 1923 Walnut street, Philadelphia, $20,000. Architect, private plans. Owners, Catholic Philopatrian Literary Club, Joseph A. Trainer, president, Commercial Trust Building, Philadelphia. Brick, 5 stories add., 11x14 feet, general alterations. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Storage Building, 2417 East York street, Philadelphia, $15,000. Architect, private plans. Owners, H. W. Butterworth & Son, 2417 East York street, Philadelphia. Brick, 3 stories, 24x65 feet, slag roof, electric lighting. Contract awarded to John R. Erbe, 2551 North Sixth street, Philadelphia.

Store and Storage Building (add. and alts.), 220-22 North Thirteenth street, $5,000. Architect, private plans. Owner, Barney Cluff, on premises. Brick, 2 stories add., 17 feet 3 inches x 70 feet, general alterations. Contract awarded to A. Fretz, 2636 West Lehigh avenue, Philadelphia.

Residence and Garage, Queen Lane Manor, Philadelphia. Architect, private plans. Owner, H. W. Engle, 3114 North Fifteenth street, Philadelphia. Brick, 2½ stories and basement, 28x40 feet, tile roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Contract awarded C. C. Eddleman, 1627 Sansom street, Philadelphia.

Manufacturing Building, Northeast Corner Lancaster avenue and Vine street, $48,000. Architect, private plans. Owners, Elder & Jenks, on premises. Brick, 5 stories, 85x73 feet, slag roof, electric lighting. Contract awarded to J. S. Sunsohn, 1352 Girard avenue, Philadelphia.

Apartment House, 2401 North Broad street, Philadelphia, $20,000. Architect, private plans. Owner, Esther Karr, 408 Bulletin Building, Philadelphia. Brick, 3 stories, 21 feet 6 inches x 87 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to Samuel Lashner, 408 Bulletin Building, Philadelphia.

Residence, West side Trevose road, North of Whitney street, Philadelphia, $8,500. Architect, private plans. Owner, C. R. Buckalew, Somerton, Pa. Frame, 2 stories, 21x36 feet, shingle roof, hardwood and pine floors. Contract awarded to Charles T. Ely, Somerton, Pa.

Stores (fire repairs), 3917 Lancaster avenue, Philadelphia, $8,000. Architect, private plans. Owners, Douglas Caramel Co., on premises. General fire repairs. Contract awarded to F. G. English & Sons, 1606 North Carlisle street.

Residence (alts. and add.), Twentieth and Brown streets, and **Garage,** Philadelphia,

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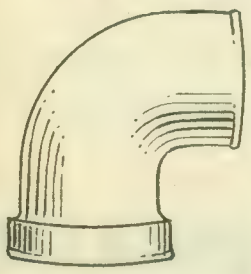
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$6,000. Architect, private plans. Owner, J. C. Heeneman, Northwest Corner Twentieth and Brown streets, Philadelphia. Brick, 1 story add., 10x20 feet, garage, 1 story, 20x26 feet, slag roof, cement and pine floors, electric light. Contract awarded to F. K. Sathl, 2711 West Park avenue, Philadelphia.

Office and Bakery (alts.), Southwest Corner Germantown avenue and Armat street, $3,000. Architect, private plans. Owner, G. McKinney, on premises. General alterations. Contract awarded to Floy Stern, Coulter street, Germantown, Philadelphia.

Apartment House, 1661 East Harrison street, Philadelphia. Architect, G. Harold Murphy, Drexel Building, Philadelphia. Owner, George T. Sales, Liberty Building, Philadelphia. Brick, cut stone, 3 stories and basement, 50x130 feet, Barrett specification roof, oak and cement and pine floors, plumbing, electric light, metal lath, tile and marble work, rolled steel skylights, ornamental iron work, area gratings, linoleum floors. Contract awarded Rush Brothers, 4682 Darrah street, Philadelphia.

Pennsylvania Construction News

Residence and Garage, Haverford, Pa. Architects, De Armond, Ashmead & Bickley, 20 South Fifteenth street, Philadelphia. Owner, Dr. H. Maxwell Langdon, Haverford, Pa. Brick, 2½ stories, 64x31 feet, slate roof, oak and pine floors, electric light, hot water heat, tile work. Owner taking bids.

Residence and Garage, Wynnemoore, Pa. Architect, Carl Ziegler, 1012 Walnut street, Philadelphia. Owner, Charles Lee, care of architect. Stone, 2½ stories and basement, 28x64 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Architect taking bids due February 4th.

Residence (alts.), Devon, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, S. P. Curtis, Devon, Pa. Stone work, cement, brick work, cut stone, limestone, sheet metal work, carpentry and mill work, painting and glazing, hardware, tile and marble work, electric, plumbing. Architect taking bids due February 9th.

Store and Apartments (4), Wynnewood, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, J. E. Kearney, Wynnewood, Pa. Hollow tile, stucco, 2 stories, 65x80 feet, slate and tin roof, hardwood floors, hot water heat, electric light, tile work, metal bulks, plate glass. Owner taking sub-bids.

Signal Tower, East Penn Junction, Allentown, Pa. Architect, private plans. Owners, Central Railroad of New Jersey, Chief Engineer, Jersey City, N. J. Brick, 2 stories, 64x16 feet, slate, built-up roof, pine floors, steam heat, metal lath, plumbing, iron stairs, ornamental iron work. Owners taking bids due February 6th.

Mill (add.), Quakertown, Pa. Architect, private plans. Owners, Chipman Knitting Mills, Easton, Pa. Brick, concrete, 2 stories and basement, 84x33 feet, built-up roof, pine floors, plumbing, roof ventilators, rolled steel sash, kalamein doors, bond, iron stairs, ornamental iron work. Owners taking bids due February 8th.

Residence, Phoenixville, Pa. Architect, Harry Mauer, 234 North Fifth street, Reading, Pa. Owner, C. J. Baker, Phoenixville, Pa. Brick, 2 stories, 40x50 feet, composition roof, hardwood floors, vapor vacuum heat, electric light, tile work. Plans in progress.

Residence, Wyomissing, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owner, T. C. Christ, Wyomissing, Pa. Stone, 2½ stories, 35x60 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, tile work. Plans in progress.

Office Building, Womelsdorf, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, Farr's Nurseries Co., Wyomissing, Pa. Stone, 1½ stories, slate roof, vapor vacuum heat, electric light. Plans in progress.

Theatre (moving picture), Red Lion, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, W. J. Rothensies, on premises. Brick, steel, concrete, 1 story, 60x154 feet, slag roof, concrete and composition floors, hollow tile, roof ventilators, waterproofing and dampproofing, architectural terra cotta, ornamental iron, fire doors, rolled steel sash, metal lath, vapor heat, electric light. Architects will be ready for bids in three weeks.

Twin Residences (4 or 5), Collegeville, Pa. Architect, J. V. Poley, 162 Second avenue, Royersford, Pa. Owner, Harry W. Brown, Collegeville, Pa. Frame and stucco, 2 stories, 16x36 feet each, slag roof, yellow pine floors (heating and lighting reserved), wood and metal sash. Plans in progress.

School, Carlisle, Pa., $200,000. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Carlisle School Board, Thomas Vale, secretary, Carlisle. Fireproof. Sketches in progress.

High School, Hazleton, Pa. $800,000. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Hazleton School Board, D. R. Evans, secretary, Hazleton. Brick, fireproof, 2 stories and basement, 318x300 feet, composition roof, maple, composition and tile floors, hollow tile, safety treads, roof ventila-

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tors, metal weather strip, dampproofing, ornamental iron work, iron stairs, bond, kalamein doors, skylights, steel sash, tile work, metal lath (heating, plumbing, electric separate). Owners will be ready for bids about February 1st.

Consolidated School, Oberlin, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Swatara Township School Board, William Horner, president, Oberlin, Pa. Brick, steel, reinforced concrete, 2 stories, composition and slag roof, cement and composition floors, roof ventilators, cut stone, steel sash, metal lath, steel window guards (heating, plumbing and electric separate). Ready for bids.

School, Littlestown, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa Owners, St. Aloysius' Roman Catholic Church, Rev. E. O'Flynn, Littlestown. Brick, steel, 2 stories, 70x120 feet, built-up roof, maple floors, hollow tile, steam heat, electric light. Will be ready for bids in two weeks.

Residence, York, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, Louis J. Appell, York, Pa. Brick, stone trimm, 2 stories, 34x54 feet, tile roof, hardwood floors, vapor heat, electric light, tile work. Will be ready for bids in three weeks.

Sunday School, York, Pa. Architects, Witman & Royer, 47 East Market street, York, Pa. Owners, Emmanuel Reformed Church, Rev. O. S. Hartman, York, Pa. Brick, 2 stories, 51x86 feet, composition roof, pine floors, vapor heat, electric light. Architects ready for bids due February 16th.

Schools (4), Drexel Hill, Bywood, Stonehurst, Highland Park, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, School Board of Upper Darby, J. Milton Lutz, Upper Darby. Owners taking bids due February 17th.

Residences and Garages (60), Conshohocken, Pa. Architect, Walter K. Durham, 312 South Broad street, Philadelphia. Owners, Conshohocken Realty Corp., care of C. A. Desimone, Conshohocken, Pa., Concrete block and stucco, 2 stories, 16x40 feet, 1 story, 10x20 feet each, asbestos shingle roof, pine and cement floors, hot water and steam heat, electric light, gas ranges. Owners taking sub-bids.

Senior High School (alts. and add.), Montgomery avenue and Church road, Ardmore, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, School District of Lower Merion Township, Ardmore, Pa. Stone, brick, cut stone, 3 stories and basement, 84x68 feet, wing 84x68 feet, built-up roof, mastic, linoleum and oak floors, hollow tile, carpentry and mill work, metal lath, bronze work, painting and glazing, hardware, metal lath, tile and marble work, terrazzo work, fire doors, bond, ornamental iron work, brick work, area gratings, composition floors, roof ventilators, metal toilet partitions. Owners taking bids due February 5th.

Lodge Building, Second avenue and Fayette street, Conshohocken, Pa. Architect, not yet selected. Owners, Knights of Columbus Home Association, Conshohocken Council, care of C. A. Desimone, chairman of Building Committee, Conshohocken, Pa. Brick, steel, 3 stories, will contain 3 stores on first floor, auditorium, club rooms, gym, etc. Work contemplated.

Residences (6), Clifton, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, G. H. Ehrentrout, Clifton, Pa. Cinder block and stucco, 2½ stories, 27x32 feet, wood shingle roof, hardwood and pine floors, hot water heat, electric light, tile work, stone foundations. Plans about completed. Owner ready for sub-bids.

Fire House and Moving Picture Theatre, Sellersville, Pa. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owners, Sellersville Volunteer Fire Co., Sellersville, Pa. Brick, steel, concrete, 2 stories, 98x32 feet, 50x88 feet, built-up roof, composition floors, vapor heat, electric light, metal lath. Owners ready for bids.

Store and Apartment Building, York road, above West, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Dr. E. T. Quinn, West and Cedar avenue, Jenkintown, Pa. Brick, reinforced concrete, cut stone, steel, 3 stories and basement, 77x79 feet, Hoffman controlled heat, electric light, tile and marble work, metal lath, oak and pine floors, iron work, bond, tin-lined and hollow metal doors, hollow metal sash, galvanized iron skylights, sidewalks, elevators, incinerator, bronze work. Architect will be ready for bids about February 15th.

Residence and Garage, Drexel Hill Park, Pa., $35,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. A. Branegen, care of architect. Stone, 3 stories, 35x42 feet, wing 2 stories, 18x15 feet, garage, 2 stories, 23x23 feet, hot water heat, oil burning, electric light, slate roof, hardwood and cement floors, tile and marble work (3 baths). Plans completed. Architect will be ready for general bids in one week.

Residence and Garage, Ardmore avenue, Ardmore, Pa. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, J. D. Mosser, 340 Brookline Boulevard, Brookline, Pa. Concrete block, stucco, 2½ stories, 28x41 feet, 22x22 feet, tile roof, hardwood and cement floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Pennsylvania Contracts Awarded

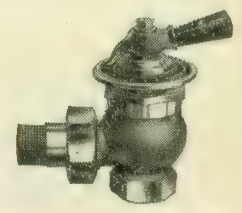
Assembly Plant, Chester, Pa. Architect, Albert Kahn, Detroit, Mich. Owners, Ford Motor Co., Detroit, Mich. Assembly building, 1 story and 2 stories, 680x453 feet, pump house, 1 story, 41x17 feet, car delivery building, 1 story, 160x64 feet, fabricating shop oil house, 1 story, 113x62 feet, power house, 1 story and basement, 63x69 feet, concrete, brick, steel, cut stone, reinforced concrete (structural steel, sash, plumbing, heating, electric, sprinkler system separate contracts), metal lath, tile and marble, rolled steel sash, iron stairs, ornamental iron work, concrete, composition built-up roof, concrete and wood block floors, roof ventilators, metal window guards, membrane waterproofing, dampproofing, steel stack, terrazzo work, wood piles, rubber tile floors, carpentry and mill work, plastering, painting and glazing, linoleum. Contract awarded Rust Engr. Co., 311 Ross street, Pittsburgh, Pa.

Theatre, Bala, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owners, Bala Theatre, care of architects. Brick, steel, 2 stories and basement, 202x60 feet, Spanish tile, asbestos built-up roof, cement, maple and composition roof, plumbing, roof ventilators, waterproofing, architectural terra cotta, ornamental iron work, iron stairs, bond, kalamein doors, galvanized iron skylights, rolled steel sash, tile, marble and terrazzo, metal lath, hot blast heating, electric light, incinerator, travertine, ornamental plaster. Contract awarded N. Altarelli Co., 1437 South Eighth street, Philadelphia.

Residence and Garage, Blancoyd and Greystone roads, Merion, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Henry R. Hollowell, Broad below Chestnut street, Philadelphia. Brick, stone, cut stone, 2½ stories, 108x37 feet (heating, plumbing, electric and refrigerators reserved), Vermont slate roof, oak and pine and cement floors, painting and glazing, metal lath, tile work, rolled steel casements, bond, ornamental iron work, limestone, flagstone. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Theatre and Office Building, Southwest Corner Fourth and Vine, Bethlehem, Pa. Archi-

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tect, William G. Lee, 1505 Race street, Philadelphia. Owners, Independent Theatres, Inc., Bethlehem, Pa. Brick, reinforced concrete, cut stone, steel, 1 story and 3 stories and basement, 80x180 feet, built-up roof, cement, rubber tile and maple floors, hollow tile, painting and glazing, roof ventilators, metal ceilings, waterproofing, integral dampproofing architectural terra cotta, metal lath, tile, a marble and terrazzo work, rolled steel sash and skylights, tin clad, kalamein and hollow metal doors, ornamental iron work, metal toilet partitions, gratings. Contract awarded without competition to T. M. Gibbs Const. Co., 1510 Chestnut street, Philadelphia, Pa., who are taking sub-bids due February 5th.

Residence (alts.), Merion, Pa. Architect, W. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, E. C. Deardon, on premises. Stone, masonry, cut stone, concrete and cement floors, structural steel, iron work, carpentry and mill work, plastering, black slate roof, plumbing, tile work, hardware, painting and glazing, electric work, weather stripping, oak floors (heating and decorating reserved). Contract awarded Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Store and Office, York, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, A. Simmons, 21 South George street, York, Pa. Brick, steel, concrete, 4 stories, 42x64 feet, slag roof, pine floors, city heat, electric light, tile and marble, plate glass. Contract awarded to George W. Gilbert, York, Pa.

Church, Seventeenth and Market streets, Harrisburg, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Memorial Lutheran Church, Dr. Lewis Menges, Harrisburg, Pa. Granite, steel, 1 story and basement, 82x122 feet, slate roof, tile and maple floors, hollow tile, ornamental iron, tile and marble, metal lath, steam heat, electric light. Contract awarded to Thomas Hicks & Sons, Baltimore, Md.

School, Manheim, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Manheim School Board, care of architect. Brick, steel, 1 story, 200x100 feet, builtup roof, maple floors. Contract awarded to B. Frank Bachman, Lancaster, Pa.

Theatre, Allentown, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, James K. Bowen, Allentown, Pa. Contract awarded W. H. Gangwere, Allentown, Pa.

Residence, Mason avenue, Drexel Hill, Pa. Architects, H. Rex Stackhouse and W. W. Donohue, 1120 Locust street, Philadelphia. Owner, name withheld. Frame, stucco, 2½ stories, 25x36 feet, irregular, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded Hopple & Miller, Heed Building, Philadelphia.

New Jersey Construction News

High School, Trenton, N. J. Architect, Ernest Sibley, Palisades, N. J. Owners, Board of Education, Trenton, N. J. Sketches not yet started. Too early for details.

Bank (alts. and add.), Flemington, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Flemington National Bank, care of architect. Brick, 4 stories, terrazzo floors, tile work, bank equipment, vault, ornamental iron work. Plans in progress.

Office, Garage and Storage, Long Branch, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, American Poster Advertising Co., Trenton, N. J. Fireproof, 1 story, 50x105 feet, slag roof, concrete and wood floors, steam heat, electric light, metal lath, fire doors. Architect will be ready for bids next week.

Synagogue, Mercer street, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Workman Circle, Branch No. 90, S. Speckter, president, Trenton. Brick, steel, 3 stories, 45x100 feet, slag roof, hardwood floors, hollow tile, roof ventilators, steam heat, electric light, metal lath, tile work, skylights, iron stairs, ornamental iron. Architect taking bids due February 28th.

Masonic Home, Willow and Front streets, Trenton, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Trenton Masonic Association, S. L. Kauffman, Broad Street Bank Building, Trenton, N. J. Indiana limestone, steel, concrete, 3 stories and basement, 98x190 feet, flat roof, hardwood and composition floors, steam heat, electric light, metal lath, tile, marble and terrazzo work. Architects about ready for bids.

Office Building, Southwest Corner Fifth and Market streets, Camden, N. J., $100,000. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Land Title & Guaranty Co. of New Jersey, on premises. Stone, steel, brick, 4 add. stories. Too early for details. Plans will be started in the near future.

Office Building, Fifth and Cooper streets, Camden, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Professional Building Corporation, care of architect. Brick, stone, steel, concrete, limestone ,terra cotta. Plans in progress.

Stores (6), Service Building, Pavilion and Franklin avenue, Riverside, N. J. Architect, H. O. Ziegler, 1012 Walnut street, Philadelphia. Owner, Lester R. Fortnum, Bridgeboro, N. J. Stone, block, brick, 2 stories, 130x60x62 feet, Spanish tile, composition and asphalt roof, wood and marbleized floors, galvanized iron skylights, metal bulks, plate glass, electric light. Architect taking bids due February 17th.

School (add.), Brooklawn, N. J. Architects, Herbert O. and C. A. Ziegler, 1012 Walnut street, Philadelphia. Owners, School Board of Brooklawn, R. K. George, Brooklawn, N. J. Brick, stone, 2 stories. Revised plans in progress.

Grad School Building, Paulsboro, N. J. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of Education, Paulsboro, N. J. Brick, reinforced concrete, cut stone, 2 stories and basement, 173x76 feet, composition roof, maple and cement floors, hollow tile, painting and glazing, roof ventilators, waterproofing and dampproofing, bond, kalamein doors, ornamental iro work (plumbing, heating, electric separate). Owners taking bids due February 19th.

Locker Building and Swimming Pool, Pine Point Park, Camden, N. J. Architects, Edwards & Greene, 548 Federal street, Camden, N. J. Owners, City of Camden, Department of Public Highways and Parks, Camden, N. J. Low bidders: Prince Concrete Co., Merchantville, N. J., $22,970; Pennsylvania Engr. Const. Co., Real Estate Trust Building, Philadelphia, $23,224; plumbing, Charles Leopold, Camden, N. J., $3,445.

Nurses' Home, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, West Jersey Homeopathhic Hospital, Dr. C. P. Hedden, Camden. Brick, reinforced concrete. Preliminary plans in progress. Too early for details.

Residence and Garage, Margate City, N. J., $50,000. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, Robert Tarlo, 415 South Fifth street, Philadelphia. Brick, stucco, 2½ stories, 32x60 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work. Architect is revising plans. Owner will build.

Office and Service Station, Camden, N. J. Architect, Elwin E. Sweeley, 101 Park avenue, New York. Owners, Mack International Truck Co., 741 Market street, Camden, N. J. Brick, steel, 1 story, 200x200 feet, slag roof, wood and cement floors, steam heat, electric light. Plans in progress.

Nurses' Home, New Lisbon, N. J. Architect, H. A. Brown, Burlington, N. J. Owners, Burlington County Board of Chosen Freeholders, George W. Rogers, Mt. Holly, N. J. Brick, 2 stories, 35x60 feet, asbestos shingle roof, maple floors, steam heat, electric light, metal lath. Plans completed. Owners will take bids in two weeks.

Church (alts.), Fifth and Cooper streets, Camden, N. J. Architect, Arthur B. Gill, Camden, N. J. Owners, Centenary Tabernacle Methodist Episcopal Church, Camden, N. J. Architect taking bids due February 11th.

Store and Apartments. 221-223 Main St., Haddonfield, N. J. Architect, Louis Joseph Tonk, 303 Schaff Bldg., Phila. Owner, F. & L. Realty & Finance Corp., 149 E. Main St., Haddonfield, N. J. Brick, 3 stories, 33x55 feet. Stores (2), Apts. (4)—slag roof, yellow pine floors, hot water heat, electric light, tile work, plate glass. Owner will take bids.

Stores (5), Apartments (6), Residence (1). Main and High Sts., Glassboro, N. J. Architect, Louis Joseph Tonk, 303 Schaff Bldg., Phila. Owner, S. Kotler, Glassboro, N. J. Brick, tile work, hardwood floors, slag roof, hot water heat, electric light, bulk windows, plate glass. Plans in progress.

Residences (69). 4th and Atlantic Sts., Camden, N. J. Architect, Louis Joseph Tonk, 303 Schaff Bldg., Phila. Owner, Herbert V. Realty Co., Atlantic City, N. J. Brick, plate glass, hardwood floors, hot water heat, slag roof, electric light. Plans in progress.

New Jersey Contracts Awarded

Club House, Pine Valley, N. J. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owners, Pine Valley Golf Club, Pine Valley, N. J. Hollow tile, 2 stories, shingle roof, electric light. Contract awarded to Ruben L. Gaunt, Berlin, N. J. Heating and plumbing, Milton W. Young, 2037 North Sixty-third street, Philadelphia. Electric, Morris Nuss, 5621 Wyalusing avenue, Philadelphia. Work soon to start.

Store Building, Haddon avenue, South of Sycamore street, Camden, N. J., $11,125. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owners, The Pep Auto Supply Co., 260 North Broad street, Philadelphia. Brick, stucco, 1 story and basement, 50x30 feet, warm air heat, electric light, metal lath, slag and tile roof, cement and pine floors, painting and glazing, plumbing, metal ceilings, plate glass, window gratings. Contract awarded H. A. Hopple, Heed Building, Philadelphia.

Steel Tower and Tank, Carpenter street, between Eighth and Ninth, Camden, $4,000. Owners, Supplee-Wills-Jones Co., Camden, N. J. Steel tower, 102 feet high. Contract awarded to R. D. Cole Mfg. Co., Newman, Georgia.

Building (add.), rear 214 Cooper street, Camden, N. J., $3,200. Owner, George W. Jessup, on premises. Block, 1 story add., 20x50 feet 8 inches, slag roof. Contract awarded to William Wrifford, 724 Washington street, Camden.

Office and Apartment, Twenty-second and Hayes avenue, Camden, N. J., $3,000. Owner, S. V. Reeve Co. on premises. Block and stucco, 2 stories, 24x36 feet, slag roof, hot water heat. Contract awarded to S. M. Reeves, Westville, N. J.

School, Riverside, N. J. Architect, H. O. Ziegler, Riverside, N. J. Owners, Board of Education, Riverside, N. J. Brick, precast stone, cut stone, steel, reinforced concrete, 1 story, 118x134 feet, slag roof, maple and rubberoid floors, hollow tile, safety treads, waterproofing, ornamental iron work, kalamein doors, rolled steel sash, metal lath, metal partitions. Contract awarded Herbert Eichner, Palmyra, N. J., $12,000. Plumbing, heating and ventilating bids will be taken later.

Apartment Building and Store, 843-45 Broadway, Camden, N. J. Architect, Arthur B. Gill, 328 Market street, Camden, N. J. Owners, Berger Brothers, 900 Broadway, Camden, N. J. Brick, cut stone, steel, 2 stories and basement, 50x49 feet, slag roof, oak and pine floors, metal lath, tile and marble work (plumbing, heating, weather stripping, bond, wall papering, electrical work, stone foundations, leaded glass reserved). Contract awarded to Victor Bezahler, Fourth and Kaighn avenue, Camden.

Residence (alts.), Merchantville, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Louis Humphreys, care of architect. Frame, slate roof, hardwood floors, general interior alterations, tile work. Contract awarded to H. Ailik, Collingswood, N. J.

Residence (alts. and add. to office), 427 Penn street, Camden, N. J. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owner, Dr. Thomas B. Lee, on premises. Bond, brick work, tile, plastering, slag roof, steel and iron, carpentry and mill work, painting and glazing, metal weather stripping. Contract awarded William R. Dougherty, 1610 Sansom street, Philadelphia.

Paving, New Jersey, $42,284.45. Owners, Commissioners of Haddonfield, Haddonfield, N. J. Paving on Haddon Homestead and Bell Tracts. Contract awarded Fish-Rutherford, 2313 Walnut street, Philadelphia.

Miscellaneous Construction News

Residence, Marshallton, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, I. M. Morrison, care of Delaware Hard Fibre Co., Marshallton, Del. Frame, 2½ stories, 35x45 feet, asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids.

Sunday School, Reynola, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, J. E. Johnston, care of architect. Brick, 1 story, 135x75 feet, tile roof, wood floors, metal sash. Plans in progress.

School, Sykesville, Md. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Board of Education of Carroll County, M. S. Unger, secretary, Westminster, Md. Owners will be ready for bids in two weeks.

Building, Wilmington, Del, Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owners, American Guaranty Co., J. M. Frere, 1600 Delaware avenue, Wilmington, Del. Owners taking bids.

(Continued from Page 68)

learned the lesson of sound building collateral, are insisting upon better construction and upon a serious review of plans and specifications before building and permanent mortgage loans are made.

The total effect of these conditions is reflected in a constant improvement in the character of new buildings and the placing of greatly increased responsibility upon the architectural profession, which to a great extent controls the expenditure of the building dollar.

Thus it is evident that 1926 will not only show a tremendous volume of new building construction, but that these buildings will be in general of better architectural design and better construction.

The American public has learned the lesson of folly in cheap building and poor planning!

Sound Supporting Economic Conditions

A highly important factor in all forecasts of this nature is the background of economic conditions. If business conditions in the United States were not good, with sound promises of so remaining for several years, there might be expected a definite curtailment of building activity—a slowing down of the great momentum established during the past few years. But conditions are good, with definite signs of stability and as the building industry is the indicator of conditions, so with the entire economic situation favorable, there is little fear of a break in public confidence or any basic business change which will interrupt the anticipated program of another six billion dollar building year during 1926.

There is some talk of the building shortage having been met—of rentals coming down—of building again assuming its normal activity. What is a "normal" building year at the present time? Surely it cannot be the pre-war normal. The population of the United States has increased materially since then; the cost of building has increased; the standards of housing American life and business have been raised; the demand for buildings is greater.

The probable "normal" building year of today is four billion dollars or more and on this basis it would take three of four six billion dollar years to meet the still existing shortage!

All is well with the building industry. It is going about its business seriously, contributing to the wealth and comfort of the nation. Some idea of the magnitude and importance of the construction industry may be gained from a statement recently made by Secretary of Labor Davis in which he said: "More than 11,000,000 of our people are dependent for their living upon the construction industry: and 22 per cent. of all the skilled and unskilled labor of the country is engaged in the building branch alone. Some 250,000 freight cars are required to handle the materials. Our building bill is $200 per year for each family in the United States. It is truly the chief barometer of the business of the country. When construction gains, prosperity is with us. It is the great outstanding influence for good or bad in our financial progress."

Architects are busier than ever before—a sure sign of great building activity to come. The number of plans being filed is contantly increasing—another sign of activity.

The Architectural Forum anticipates and predicts that approximately the following number of new structures will be added to the building census of the United States during 1926.

The total number of building permits which will be issued for structures of every kind, including alterations will be approximately 700,000.

There will be constructed in the field of new buildings about:

Automotive Sales and Service Buildings—large	3,174
Automotive Sales and Service Buildings—small	6,740
Private Garages	274,000
Bank Buildings—large	1,320
Bank Buildings—small	4,350
Apartment Buildings—large and small	28,950
Apartment Hotels	1,240
Club and Fraternal Buildings	2,170
Community and Memorial Buildings	1,104
Churches	3,160
Dwellings, under $10,000, including farm	193,000
Dwellings, $10,000 to $20,000	42,000
Dwellings, $20,000 to $50,000	14,700
Dwellings, over $50,000	3,190
Hotels, under 50 rooms	1,874
Hotels, over 50 rooms	1,414
Hospitals	1,117
Industrial Buildings—large and small	9,782
Office Buildings	3,074
Public Buildings	972
Schools, small	2,156
Schools, large	1,742
Stores	7,842
Theatres	1,645
Welfare, Y. M. C. A., K. of C., etc.	670
Farm Buildings, not including dwellings	163,420
Institutions and Libraries	3,634
Total New Buildings for 1926	778,440

STABILIZING BUILDING

How often do we see discredit come to the entire local building industry because some inexperienced and irresponsible so-called contractor bids to do a job at a low price and then is financially unable to carry the contract to completion.

The joint Conference on Construction Practices of the Associated General Contractors of America are doing what they can to correct this evil and are advising the public as follows:

PUBLIC OFFICIALS! Don't let a con-

tract unless you know that the successful bidder has the resources to complete it. Don't let a contract at a price below an intelligent estimate of cost plus a reasonable profit.

SURETY COMPANIES! Don't bond a contractor unless you know he has the experience, financial resources and the physical equipment necessary to fulfill the contract.

EQUIPMENT MANUFACTURERS! Don't sell to irresponsible contractors, and take precautions not to overload any contractor with equipment which he does not need.

CONTRACTORS! Refrain from bidding on contracts which you do not have the equipment or resources to handle. Don't undertake any job at an unprofitable price.—*Building Age and National Builder.*

The Convention and Exhibition Hall at Camden, N. J., was recently dedicated by the Commissioners of the City of Camden at a banquet held at the Convention Hall.

There were about 3,000 people seated in the hall which is an unobstructed room 275x128.

The Commissioners were represented by Mr. M. F. Middleton who made an interesting address.

Senators Edge and Edwards as well as City Solicitor Miller made short addresses complimenting the Commissioners of the City of Camden upon their efforts in procuring the Convention and Exhibition Hall which is larger than any of its kind in nearby cities.

Among those who were especially thanked for their untiring efforts in securing this project were mentioned: Mr. Raymond Staley, Commissioner of Parks and Public Property, Mr. Staley's Assistant, Mr. Denny, who did excellent work, Chief Kelly of the Electrical Bureau, as well as Mr. Harry Pelouze.

Edwards & Green, Architects, of Camden and Philadelphia, were praised for their efficiency in designing and superintending the erection of this building.

John M. Yardley & Son, Builders, Philadelphia, were congratulated upon the workmanship displayed in transforming the former delapidated iron foundry into the beautiful Convention and Exhibition Hall.

PROPER LOCATION OF CHIMNEYS

BY JOHN MC BLAIN

In a development now being marketed there are two apartment houses on the east and one on the west side of a central space allotted to playground and tennis court. The chimneys are on the rear walls, towards the play ground, and the top of each is about 3 ft. above the roof at that point.

In the apartment house on the west side two families on the top floor complained of smelling coal gas last winter. They say if there is no improvement in conditions they will refuse to stay this winter. Representatives of the land company and the architect could find no leaks in the walls and say the complaints are imaginary.

An engineer, an authority of power plant construction was consulted by the tenants. He decided that the fault lies in the chimney height. The architect objects to increasing the chimney height, saying it will hurt the artistic appearance of the group of buildings.

In support of his contention he stated that no complaints were received from tenant-owners in the two buildings on the east side. The three buildings are similar in all respects, having been built from one set of plans. Complaints have come only from two families on the top floor of the west apartment house. The chimney is in the corner of the wall separating their apartments.

The engineer pointed out that the tops of their bedroom windows are only five feet below the top of the chimney; which is on the east wall of a building only 25 ft. wide. The top of the front parapet wall is 2 ft. higher than the top of the chimney. There are two pent houses on roof about 25 ft. apart, rear walls of which are 15 ft. from chimney.

The prevailing winds are from the west and blow over the front parapet wall and the pent houses and around the latter, toward the chimney. The smoke and gases of combustion being heavier than air drop behind the east wall and into the windows. This hypothesis is apparently correct for it is well known that a partial vacuum is created on the leeward side of a building when the wind blows. Unfortunately for the occupants of the upper flats their windows interfere with the formation of the vacuum that would otherwise exist.

The engineer appears likely to win for the tenants. The Building Code Committee of the U. S. Department of Commerce recommends as minimum requirements that chimneys should terminate at least 3 ft. above flat roofs and 2 ft. above peaked roofs. The best practice requires in addition that the chimney top should be one foot higher than any wall or other wind obstruction that is within 15 ft. of the chimney. It also requires that the chimney should at least be as high as any wall or wind obstruction which may be more than 15 ft. and not more than 25 ft. from the chimney. Common sense and experience dictate other modifications with respect to the direction of prevailing winds.—*Building Age.*

PROPERTIES OF CEMENT-LIME MORTARS

An increase in workability and possible reduction in cost are the principal reasons why lime might be used to advantage in cement mortars, according to results secured by the Bureau of Standards, Department of Commerce.

When lime plaster is gaged with cement, it still retains considerable of its former workability, and has gained in strength, while the time of set is reduced.

In this work the Bureau found that when cement paste and lime paste were brought to the same consistency, a much greater percentage of water was required by the lime than by the cement. With this relation holding, the percentages of mixing water in cement mortars and in lime mortars increased with a decrease in the percentage of sand. A cement mortar with lime added requires extra mixing water, but this extra water increases shrinkage possibilities, therefore lime should be limited in cement mortars where it is desired to keep shrinkage low. It is possible to keep shrinkage low by the use of a high percentage of sand in any mortar.

The density of lean cement mortars may be increased by the addition of a small percentage of lime. Where the cement mortar is not richer than 1:2, the addition of lime may result in increasing the strength. The percentages of lime which may result effectively in these respects were found to increase with the leanness of the mortar. It is probable that the lime does more than act as a void filler in lean cement mortars, for it can carbonate and form a binder in the place of the missing cement.

It is not to be expected that these results will be duplicated exactly where other brands of materials or differently graded sands are used with different manipulation and under different storage conditions.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of were not taught to battle with the world or unwise educational methods. Such people meet life's emergencies.—Thoreau.

We'll *write* your advertising without charge. All we ask is that you pay for the space and provide our ad. man with the necessary selling pointers.

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

Reference Directory for Architects, Builders and Owners

ACCOUNTANT.
R. Landergin.....5523 Hadfield St., Phila.

ARCHITECTURAL IRON WORK
Quaker City Art Metal Works,
2445 N. Second St., Phila.

ARTESIAN WELLS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Robbins, Chas. H., Co.....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.

BRICK (Face, Common, Paving).
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.
Joseph Rotornado.....4740 Milnor St., Phila.

BUILDING BLOCKS.
Victor Concrete Products Co.,
Primos Station, Del. Co., Pa.

BUILDERS' SUPPLIES.
Service Supply Corporation,
20th and Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
Huskey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
Vineland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
The Van Sciver Corporation.
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
D'Lauro, John .....55 E. Mermaid Lane, Phila.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

COLUMNS (Metal).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE SEWER PIPE.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

CONCRETE WORK.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
Devitt, Paul J. .....1101 S. 2nd St., Phila.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation,
20th and Venango Sts., Phila.

CORK FLOORING
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

CURTIS WOODWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
Building News Pub. Co. ...1530 Chestnut St., Phila.

DAMPPROOFING.
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger.....829 N. 3rd St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1505 Race St., Phila.

DOOR BEDS
Murphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F. Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

EXCAVATING.
Harsch, Wm. F. .....Narberth, Pa.
McCarrick Bros.....3240 N. Fox St., Phila.
Sanitary Engineering Co.....40 S. 52nd St., Phila.

FENCES.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Potts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St,. Phila.

FINANCING (BUILDING)
Commercial Advance Corp., 1011 Chestnut St., Phila.
Abe Kolsky .....9th & Walnut Sts., Phila.
Mortgage Extension Corp..1011 Chestnut St., Phila.

FIREPLACE EQUIPMENT.
F. R. Rosen.....5327 Market St., Phila.

FIREPROOFING.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES.
J. E. Lingo & Son .....Camden, N. J.

FLOOR HARDENER.
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Concrete Waterproof Paint Co...829 N. 3rd St., Phila.
Truscon Laboratories.....1505 Race St., Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Cox, Abram, Stove Co., .American and Dauphin Sts.
Fleck Bros. .....44 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.

GAS RANGES.
Abram Cox Stove Co.,
American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GRADING
Harsch, Wm. F. .....Narberth, Pa.

GRANITE
John Meehan & Son.....916 W. Dakota St., Phila.
Vineland Architectural Cast Stone Works,
Vineland, N. J.

HARDWARE (Builders').
Devitt, Paul J. .....1101 S. 2nd St., Phila.

HAULING CONTRACTORS.
McCarrick Bros.....3240 N. Fox St., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....6622 Woodland Ave., Phila.

HEATING BOILERS.
Cox, Abram, Stove Co.,
American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.

HOLLOW TILE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

HOT WATER GENERATORS.
Edwin Elliot & Co. .....1011 Chestnut St., Phila.

INSURANCE.
Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
1711 Chestnut St., Phila.
Smith-Austermuhl Co. .....Camden, N. J.

IRON AND STEEL BARS AND PLATES.
DeCou, Richard.....11th and Noble Sts., Phila.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Thos. H. Livezey & Co.,
Luzerne and American Sts., Phila.
Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
Nicetown Plate Washer Co., Inc.,
1844 W. Juniata St., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N Mascher St., Phila.
Potts, Horace T., & Co....Erie Ave. and D St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

KITCHEN CABINETS.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.

LEVELS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

LIGHTING FIXTURES.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LIGHT IRON CONSTRUCTION.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LINOTILE.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

LUMBER.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Ketcham, Howard.....3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

LUMBER (Wholesale).
J. Randall Williams & Co.,
1031 Commercial Trust Bldg., Phila.

MARBLE AND MOSAIC.
Acorn Tile Co. .....Clementon, N. J.
Belfi Bros. Co. .....1923 Market St., Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. .....433 Spruce St., Phila.
Roman Mosaic & Tile Co. .....435 Green St., Phila.
Wm. G. Wilson.....2313 Walnut St., Phila.

MASON BUILDER.
D'Lauro, John .....55 E. Mermaid Lane, Phila.

METAL LATH.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
John S. Raynor.....2300 E. Lehigh Ave., Phila.

METERS.
Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

MILLWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

ORNAMENTAL IRON.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.

PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS.
Weber, F., Co. .....125 S. 12th St., Phila.

PLASTERER.
Joseph Rotornado.....4740 Milnor St., Phila.

PLASTERERS' SAFETY CLIPS.
John S. Raynor.....2300 E. Lehigh Ave., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., Phila.

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Malia, Thomas .....226 W. Mentor St., Phila.

RADIATOR CABINETS.
Radiator Cabinet Co. .....Drexel Bldg., Phila.

RANGES.
Cox, Abram. Stove Co., American and Dauphin Sts.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ....1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

REFRIGERATORS.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co.....1026 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.

REINFORCING BARS.
Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
Nicetown Plate Washer Co., Inc.,
1844 W. Juniata St., Phila.
Penn Steel Service Co. .....Perry Bldg., Phila.
H. T. Potts & Co. ....Erie Ave. and "D" St., Phila.

ROAD BUILDING.
Harsch, Wm. F.....Narberth, Pa.

ROAD MACHINERY.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation,
20th and Venango Sts., Phila.

ROOFING.
Brinkman Bros. .....2615 Frankford Ave., Phila.
Benjamin Foster Company,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.

ROOFING MATERIALS.
Service Supply Corporation,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.

ROOFING SLATE.
Chapman Slate Co .....Bethlehem, Pa.

ROOFING TILE.
Ketcham, O. W. .....121 N. 18th St., Phila.

SAFETY GUARDS.
Potts, Horace T., & Co...Erie Ave. and D St., Phila.

SAND AND GRAVEL
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

SCAFFOLDING.
Patent Scaffolding Co. .....2835 Bridge St., Phila.

SCREENS.
Malia, Thomas.....226 W. Mentor St., Phila.

SEPTIC TANKS.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

SEWAGE EJECTORS.
Sanitary Engineering Co.....40 S. 52nd St., Phila.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

SEWERAGE WORK.
Harsch, Wm. F. .....Narberth, Pa.
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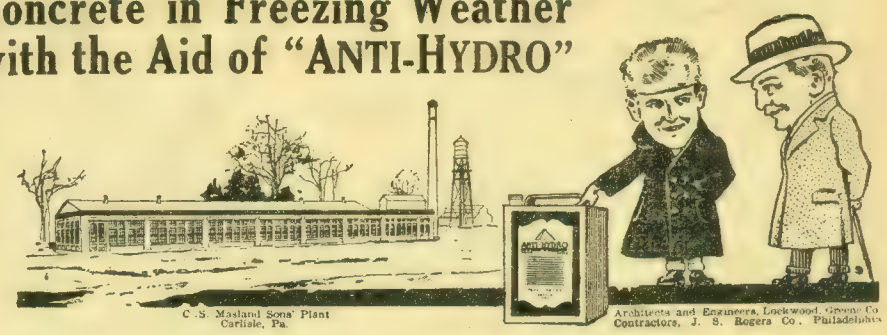
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February 10, 1926

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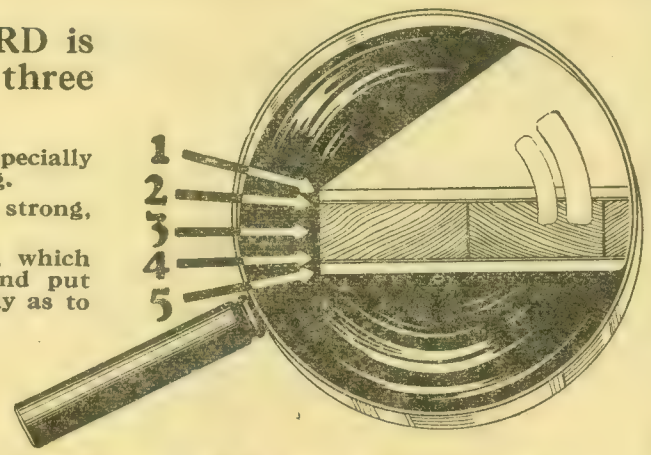
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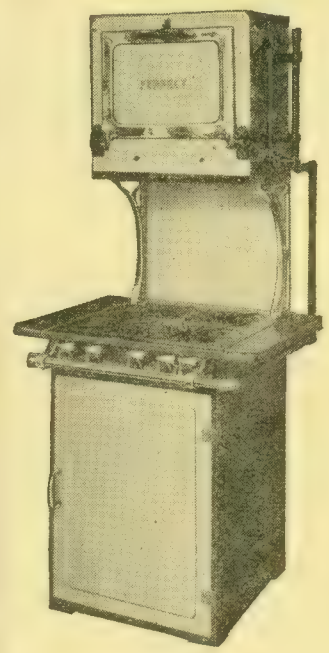
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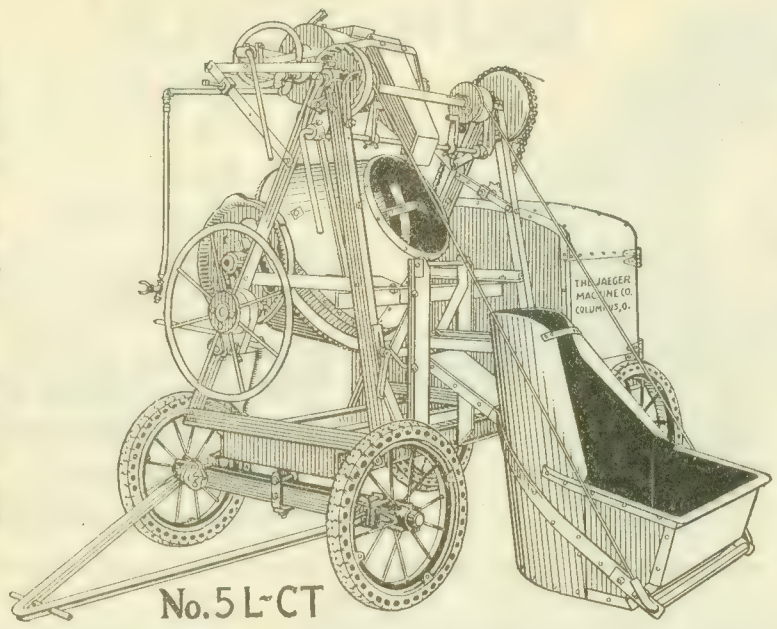
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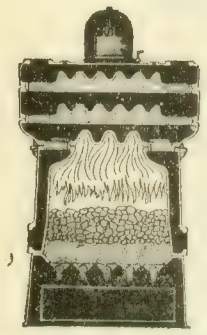
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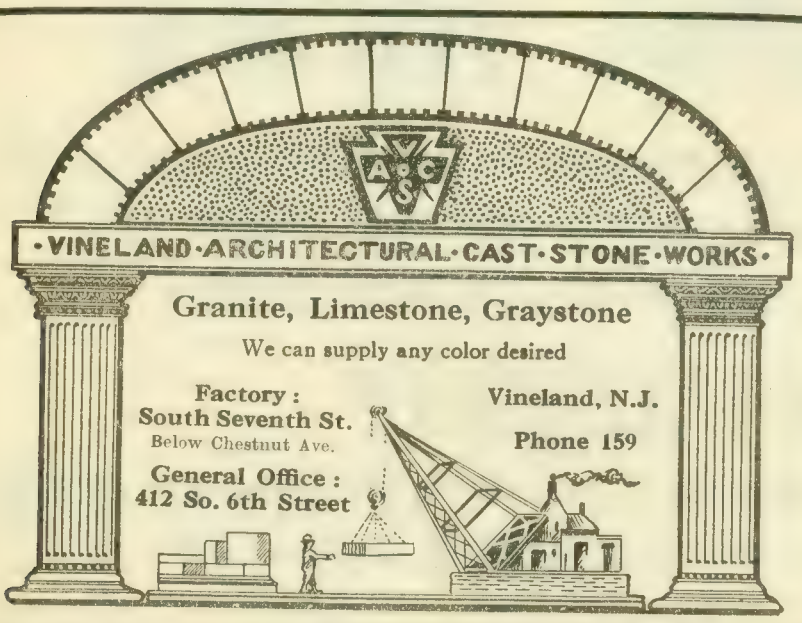
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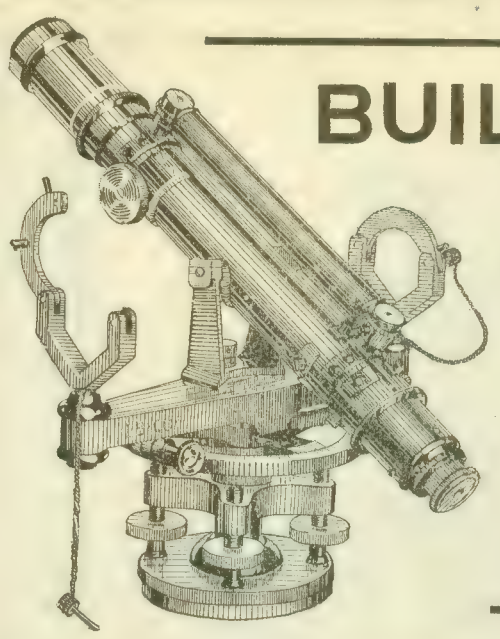
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BUILDERS' GUIDE

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VOLUME XLI
Number 6

PHILADELPHIA
February 10, 1926

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BY

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As The Editor Sees It

WONDERFUL RESULTS OBTAINED BY INSULATING DWELLINGS

By John R. Livezey

The ability of a material to withstand the test of time for particular purposes is shown in an insulating material. Corkboard, brought on the market about 1893, is now the peer of all other materials used for this purpose, and is the standard where good insulation is desired.

New uses are being found for it, as time goes on—the insulation of machinery to prevent vibration and deadening of sound—and the latest and most important use of corkboard is for the insulation of houses. In the past it has been used in isolated cases for this purpose, and about three years ago, the writer urged an investigation of corkboard for house insulation. Little, however, was done until recently, when investigation brought surprising results as to the great saving in fuel, radiation necessary to heat an insulated house over one not insulated, and the great saving in fuel effected by its use, which is a continual source of income from the investment the whole time the heating plant is in operation.

It has been worked out that the most economical thickness to be used in house insulation is one and one-half inches for walls and two inches for the roof or top ceiling, as the case may be.

One might think that its use would increase the cost of construction so as to make its use prohibitive, but such is not the case; by its use, lath is eliminated, thickness of walls can be reduced, radiation required can be cut 20 to 25%—house plaster can be applied directly to the cork more easily than to lath of any kind at less cost and we have absolute examples where the cost of installation in a house will only be a few hundred dollars more at the outside, and in some cases, the saving in construction is greater by the use of cork.

It will surprise many to know that with all the evidences we have of the great advantage in insulating a house, and the continual saving effected, many builders and steam fitters are skeptical of the matter.

As to the saving on the investment, the amount of fuel used can be cut 25 to 35%. One builds a home and installs many things that are only justified because of their convenience. Few, if any, will actually show a worth-while return on the investment; but with a house insulated with corkboard, the situation is different. It pays an actual return in reduced fuel bills for the heating season.

The amount of savings depends on a number of factors—but in practically all cases it may be said that the insulation of a house, except in warm climates will pay for itself in fuel saved in a comparatively few years.

For illustration, we wish to set before you actual figures, concerning a new residence recently insulated in the vicinity of Philadelphia.

This residence is built entirely of stone, is 2½ stories and approximately 70x40 feet. Due to the unevenness of the walls on the interior, we first had to true up the interior of all exterior walls with Portland Cement Mortar, before applying corkboard. On the interior of all exterior walls we cemented 1½ inches corkboard directly against the walls, using a mix of two parts of sand to one part of Portland Cement Mortar, spread on the corkboard ½ inch thick using approximately 2979 square feet of corkboard. As the attic of this residence is going to be used for storage purposes only, we insulated the underside of the second floor ceiling joist with 2 inch corkboard, nailing same with galvanized iron

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nails, these being used to prevent rust stains showing through the plaster directly against the joist, using approximately 2478 square feet; in all cases plastering directly against the corkboard.

Due to insulation we wish to give some true and interesting data. To begin with the house uninsulated required 1503 sq. ft. of radiation; due to insulation, it was possible to reduce the radiation 25.6% or 385 sq. ft., to 1118 sq. ft. Although this home is being heated with gas, we figured the savings possible, should the fuel used be oil or coal. For the uninsulated house, 5800 gallons of oil would be required, against 4300 gallons for the insulated house; showing a saving of approximately 1500 gallons of oil per heating season. As for coal, the uninsulated house would require 28.9 tons against 21.5 tons for the insulated house, creating a saving of approximately 7¼ tons of coal per heating season.

Regarding gas, the fuel being used, our calculations show that a house of this type would consume 1,800,000 cubic feet of gas without insulation; due to insulation we find that approximately 1,342,000 cubic feet of gas would be required, or a saving of 450,000 cubic feet at $1.00 per thousand cubic feet or a saving of $458.00 per heating season; the heating season extending from October 15th to May 15th.

In addition to the saving in fuel, we were also in a position to save the owner an additional sum; first, the size of the boiler was decreased, the boiler specified being too large for an insulated house; secondly, the heating contractor reduced the size of the heating units throughout the house; third, owing to the fact that we plaster direct to the corkboard, no plaster lath was required; fourth, as the cork was cemented against the walls, the contractor allowed a credit of the elimination of nailing strips.

Taking into consideration, the allowances made possible due to insulation we firmly believe that the owner in this particular case will be able to pay for the cost of his insulation within two years after he occupies his home.

In addition to what has been included above, for the entire time that this house is occupied, he will have a cooler house in the Summer, and a warmer house in the Winter, with a very small addition to the cost of this house.

The above illustration we believe should satisfy any person that an insulated house is the only modern construction. There are many materials on the market at the present time being used for house insulation purposes, but none of them compare with corkboard. It is slow burning, fire-retardant, and has the approval of the National Board of Fire Underwriters for cold storage construction, and in places where fire has occurred, its peformance has justified this approval many times over. Corkboard is also structurally strong and vermin-proof.

The heat loss through a typical roof consisting of slate laid over wood sheathing (or T. & G. boards) amounts to .42 B. T. U. per square foot. When insulated with one and one-half inches of pure corkboard, the loss is only .14 B. T. U.—a 66% saving. And with two inches of corkboard the reductions amount to 73% —a transmission of but .11 B. T. U.

Could there be more convincing proof that it is high time to stop this awful waste of fuel and in so doing, it will be like finding easy money. There is another point too—the idea of the insulated house is so basically sound and is bound to spread so rapidly within the next few years, that a house without insulation will have a greatly depreciated resale value.

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Bank Building (alts. and add.), Southeast Corner Broad and Diamond streets, Philadelphia. Architect, J. T. Brugger, Public Ledger Building, Philadelphia. Owners, Broad Street National Bank, Lewis A. Davis, on premises. Sketches drawn for addition to building or minor alterations to present building and adjoining building. Work contemplated.

Store and Office, 709-11 Chestnut street, Philadelphia. Architect, J. L. Stetler and H. M. Deysher, 1015 Chestnut street, Philadelphia. Owner, Louis Lifter, Jefferson Building, Philadelphia. Brick, stone, steel, 4 stories, 75x170 feet. Preliminary plans in progress.

Sales and Service Building, Broad and Chelten avenue, Philadelphia. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, George T. Flurer, care of architect. Brick, limestone, concrete, 3 stories, 60x140 feet, slag roof, plumbing, steam heat, electric light, tile work, hollow metal skylights. Revised plans in progress.

Stores (4), Apartments (6), Northwest Corner Sixty-fifth and Haverford avenue, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, cast stone, 3 stories, 24x125 feet, slag roof, pine and composition floors, incinerator, Murphy door beds, vapor heat, electric light, metal lath, tile and marble work, fire tower. Plans in progress.

Dyeing and Cleaning Establishment, Ridge and Lehigh avenues, Philadelphia. Architect, not yet selected. Owners, Bornot, Inc., care of Frazier Co., 1600 Walnut street, Philadelphia. Site selected.

Store (alts. and add.), Frankford avenue, Philadelphia. Architect, Samuel D. Milnor, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Brick, steel, 1 story, 55x50 feet, slag roof, maple floors, steam heat, electric light, cement. Plans in progress.

Store, Residence and Garage, Frankford, Philadelphia. Architect, Samuel D. Milnor, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Brick, 2 stories, 25x68 feet, 1 story, 17x25 feet, slag roof, pine and cement floors, hot water heat, electric light, tile work, flush bulks, plate glass. Sketches in progress.

Drug Store (alts. and add.), 5622-24 Germantown avenue, Philadelphia. Architect, Edgar A. Wightman, Bankers' Trust Building, Philadelphia. Owner, Martin M. Scott, care of architect. Brick, 1 story, steam heat, tile and marble work, linoleum floors, tile and marble work, metal bulks, plate glass. Plans in progress.

Residence and Garage (14), Pleasant avenue, Germantown, Philadelphia. Architect, private plans. Owner, Charles S. Booth, 4355 Frankford avenue, Philadelphia. Brick, 2 stories and basement, 16x44 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work. Owner ready for bids in a few days.

Apartment House, Green, Hortter street and Upsal street, Philadelphia. Architect, Herman Kline, Bulletin Building, Philadelphia. Owner, name withheld. Brick, steel, 9 stories and basement, irregular in size, built-up roof, oak and pine floors, elevator, vapor heat, electric light, tile and marble work, rolled steel sash, ornamental iron work, electric refrigerator. Architect will soon take bids. Plans completed.

Residence and Garage, Roosevelt Boulevard and Hellerman street, Philadelphia. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, C. W. Haig, 6512 North Fairhill street, Philadelphia. Stone, 2½ stories, 37x32 feet, tile roof, hardwood floors, hot water heat, electric light, tile and marble work, garage, 1 story, 18x40 feet, cement work. Owner taking sub-bids due as soon as possible.

Apartment House, Sharpnack street, Germantown, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, William Bird, 141 East Chelten avenue, Philadelphia. Brick, 2 stories, 20x100 feet, steam heat, electric light, slag roof, hardwood floors, tile work. Plans completed. Owner will take bids.

Residences (50), Ashdale street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, L. B. Roberts, Brookline, Pa. Brick, 2 stories, 16x40 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, garages in basements, enclosed porches, galvanized iron work. Owner ready for sub-bids.

Residence and Garage, Northeast Corner Eighth and Chelten avenue, Philadelphia. Architect, Leopold Hanf, 198 East Essex avenue, Lansdowne, Pa. Owner, Mrs. Alma M. Connor, 2001 North Twenty-third street, Philadelphia. Stone, cut stone, 2½ and 1½ stories and basement, garage, 23x20 feet, house, 42x24 feet, variegated slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile and marble work, ornamental iron work, bluestone, area gratings. Owner taking bids due February 20th.

College Building and Monastery, Fifty-fourth and City Line, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Joseph's College, Rev. Albert G. Brown, S. J., president, Seventeenth and Stiles streets, Philadelphia. Local stone, reinforced concrete, steel, fireproof, 2, 3 and 4 stories, 170x186 feet, 150x274 feet, central heat, electric light, tile and marble work, slate roof, hardwood floors and trim, metal casements. Plans may be obtained from architect. Deposit $50 on general construction. Refund $38. Deposit $25 each on plumbing, heating and electric. Refund $20 on each. Bids will be received by Building Committee, care of A. G. Bown, S. J., St. Joseph's College, Eighteenth and Thompson, due February 27th at noon.

Pennsylvania Sesqui-Centennial Building, Philadelphia. Architect, Ralph Benckert, Bellevue Court Building, Philadelphia. Owners, State of Pennsylvania, Harrisburg, Pa., Sesqui-Centennial Commission, H. T. Baxter, secretary, 926 Widener Building, Philadelphia. Plans and specifications may be obtained at office of Ralph B. Benckert, architect, 1418 Walnut street, Philadelphia. Owners taking bids due February 16th at 12 noon on piling and fill only.

Residences (4), Sims street and Forest Hills avenue, North of Overhill street, Philadelphia, $6,500. Architect, private plans. Owner, D. Brewer Gehly, Somerton, Pa. Frame, 3 stories, 31x23 feet, shingle roof, hardwood and pine floors, electric lighting. Permit granted.

Apartment House (alts. and add.), 2111 North Thirty-third street, Philadelphia, $5,000. Architect, private plans. Owner, Benjamin Linker, 204 South Seventh street, Philadelphia. Brick, 3 stories add., 9x15 feet. General alterations. Permit granted.

Residences (15), East side Barclay street, South of Ainslie street, $4,000 each. Architect, private plans. Owner, M. J. McCrudden, 1134 Real Estate Trust Building, Philadelphia. Brick, 2 stories, 16x25 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

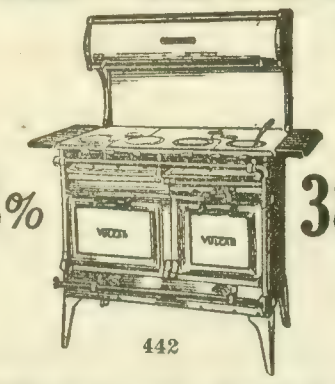
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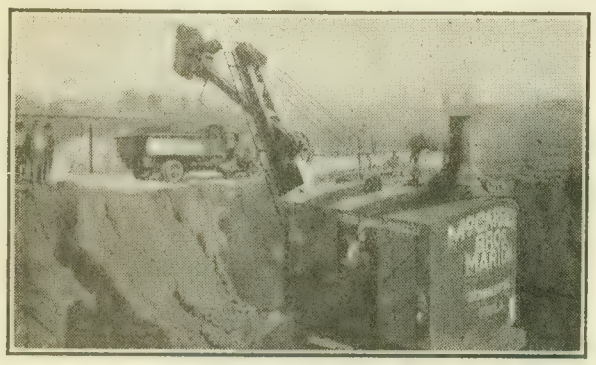
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718 Market street, $25,000. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Oner, Bernard Stern, 712 Market street, Philadelphia. General alterations. Contractor not selected. Permit granted.

Storage Building, East side Thirteenth street, North of Pike street, $3,000. Architect, private plans. Owner, Charles F. Felin, 3812 York road, Philadelphia. Brick, 1 story, 22x26 feet, slag roof, electric light. Permit granted.

Shop, South side Cayuga street, East of Sixth street, Philadelphia, $2,000. Architect, private plans. Owner, Harry J. Gelsman, 4339 North Sixth street, Philadelphia. Brick, 1 story, 29 feet 2 inches x irregular, slag roof, electric work. Permit granted.

Store and Residence, Northeast Corner Vaux and Indian, Queen Lane, $9,000. Architect, private plans. Owner, Samuel D. Levin, 406 City Center Building, Philadelphia. Brick, 3 stories, 16x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Stores and Residences (3), Fifth and Fisher's avenue, Philadelphia, $32,000 total. Architect, private plans. Owner, William H. Ashton, 5302 North Fifth street, Philadelphia. Brick, 2 stories, (1) 20x68 feet, (2) 20x37 feet, 16x23 feet, slag roof, hardwood and pine floors, hot water heating, electric lighting. Permit granted.

Residence (add. and alts.), 1604 North Seventeenth street, Philadelphia, $5,000. Architect, private plans. Owners, Hyman & Greenberg, 2543 North Hollywood street, Philadelphia. Brick, 2 stories add., 12x11 feet, general alterations. Permit granted.

Alterations, Forty-ninth and Schuylkill avenue, Philadelphia. Owners, Department of Public Works, Bureau of Street Cleaning, 322 City Hall. Owners taking bids due February 16th at noon. Certified check 5 per cent. of bid. Alterations to hydraulic presses, repairs to boiler stack. Inquire Room 332.

Concrete Embankment and Bulk Headings, East side of Schuylkill, Spring Garden street, South, Philadelphia, $2,000,000. Owners, Department of Public Works, care of Bureau of City Property, City Hall. Work contemplated.

Miscellaneous Work, Philadelphia. Owners, Department of Public Safety, Electrical Bureau, 215 City Hall. Owners taking bids due February 15th at noon, Electrical Bureau. Furnishing all labor and mamterials for repairs to tower elevator, City Hall. Certified check 5 per cent. of bid.

Supplies, Philadelphia. Pruchasing agent, E. J. Lafferty, 312 City Hall, taking bids due February 15th. Certified check 5 per cent of bid, for copper wire, cross arms, etc., lumber. Inquire Room 329.

Schools (2), Sixty-sixth and Elmwood avenue, Twenty-sixth and Cumberland streeets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Low bidders: Sixty-sixth and Elmwood Avenue School—Cramp & Co., Denckla Building, Philadelphia, $1,028,307; Sinclair & Griggs, Medical Arts Building, Philadelphia, $1,039,000; plumbing, S. Faith & Son, 2427 Pennsylvania avenue, Philadelphia, $46,864; electric, E. F. Goldhahn, 17 South Forty-fourth street, Philadelphia, $63,552; heating, S. Faith & Son, 2427 Pennsylvania avenue, Philadelphia, $93,-993; ventilating, Thompson Brothers, 520 Buttonwood street, Philadelphia, $8,371. School, Twenty-sixth and Cumberland streets—Cramp & Co., Denckla Building, Philadelphia, $1,-011,956; John McShain, 1713 Sansom street, Philadelphia, $1,029,887; plumbing, L. J. Sommer & Son, 2436 Brown street, Philadelphia, $45,934; electric, E. F. Goldhahn, 17 South Forty-fourth street, Philadelphia, $61,738; heating, S. Faith & Son, 2427 Pennsylvania avenue, Philadelphia, $93,993; ventilating, Thompson Brothers, 520 Buttonwood street, Philadelphia, $8,371. Specificaction No. 9, electric, E. F. Goldhahn, 17 South Forty-fourth street, Philadelphia, $484.

Grading and Paving, Philadelphia. Owners, Bureau of Highways, City Hall, Philadelphia. Bids received February 4th, 1926.

Schedule A—Asphalt paving. Bermuda street and Edgemont street, Mack Paving Co., Nicetown Lane and C street, Philadelphia, $13,974.69. Bodine street, Bristol to Cayuga street, Philadelphia, Barber Asphalt Paving Co., Thirtieth and Race streets, Philadelphia, $6,037.17. Conlyn street, Ogontz avenue to Grange street, Eastern Paving Co., Pennsylvania Building, Philadelphia, $8,564.74. Nedro avenue, Twenty-first street to Kemble street, Barber Asphalt Paving Co., Thirtieth and Race streets, $9,244.52. Rutland street, Harrison street to Wakeling street, Mack Paving Co., Nicetown lane and C street, Philadelphia, $7,050.56. Torresdale avenue, from I to N streets, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $94,583.01. Fifth street, Nedro avenue to Godfrey avenue, Barber Asphalt Paving Co., Thirtieth and Race streets, $25,580.63. Twentieth street, Andrews street to Middleton street, Barber Asphalt Paving Co., Thirtieth and Race streets, Philadelphia, $5,765.49.

Schedule B—Asphalt repaving. Fifty-second street, Baltimore avenue to Warrington

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avenue, Barber Asphalt Paving Co., Thirtieth and Race streets, $28,823.64.

Schedule C—Redressed granite block repaving. Erie avenue (track area), from Germantown avenue to Second street, Fish-Rutherford Co., 2313 Walnut street, Philadelphia, $60,141.75. Girard avenue (track area), Fifty-fourth to Sixtieth street, Fish-Rutherford Co., 2313 Walnut street, Philadelphia, $29,418.25. Fourth street, Market to Race, Acchione & Canuso, 804 South Twelfth street, Philadelphia, $14,686.75. Fourth street, Pine street to Catherine street, Municipal Paving Co., 702 Catherine street, Philadelphia, $25,671.40. Twelfth street, Columbia avenue to Huntingdon street (track area), Fish-Rutherford Co., 2313 Walnut street, Philadelphia, $32,627.36. Nnieteenth street (track area), from Girard to Susquehanna, Fish-Rutherford Co., 2313 Walnut street, Philadelphia, $32,570.95. Twenty-ninth street (track area), Lehigh avenue to Allegheny avenue, Fish-Rutherford Co., 2313 Walnut street, $28,291.90.

Schedule D—Grading. Holme avenue, Holme Circle (Welsh road) to Willitt's road, Roy B. Wenner, 2313 Walnut street, Philadelphia, $45,032.26.

Creosoted Ties, Philadelphia. Owners, Department of City Transit, City of Philadelphia. Furnish and deliver of various sizes and lengths, total approximately 1,735,000 feet board measure of timber, most of which is Southern yellow pine specified. Deposit $10, refunded. Certified check 5 per cent. of bid. Owners taking bids due March 2nd at noon. Plans at office of Department.

Residences (24), Stenton avenue and Louden streets, Philadelphia, $4,500 each, **Stores and Residences (2),** Stenton and Louden streets, Philadelphia, $5,500 each. Architect, private plans. Owner, David Jenner, 605 Land Title Building, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Store and Residence (add. and alts.), 1652 East Orthodox street, $4,500. Architect, private plans. Owner, Morris Dietch, 1660 East Orthodox street, Philadelphia. Brick, 3 stories, 14x14 feet, general alterations. Permit granted.

Residence, North side Friendship street, West of Frontenac street, $4,000. Architect, private plans. Owner, John Metzger, 4433 North Third street, Philadelphia. Frame, 2 stories, 24x42 feet, hot water heat, electric light, pine floors. Permit granted.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Machine Shop, North side Tioga street, between Almond and Livingston, $7,700. Architect, private plans. Owners, Joseph Hyman & Sons, on premises. Brick, 1 story, 120x200 feet, cement floors, slag roof, steel sash. Contract awarded to John N. Gill Const. Co., 121 North **Broad street.**

Residence, North side Princeton avenue, West of Frontenac street, $3,400. Architect, private plans. Owner, William Sturm, 328 West Master street, Philadelphia. Frame, 2 stories, 24x36 feet, pine floors, hot water heat, electric light. Contract awarded to John Metzger, 4433 North Third street, Philadelphia.

Store and Storage Building (add. and alts.), 108 South Fifty-second street, $2,000. Architect, private plans. Owners, R. W. Realty Co., 191 Hudson street, New York. Brick, 1 story add., 21x20 feet, general alterations. Contract awarded to Schelling & Busch Co., 26 East Forty-second street, New York.

Alterations and Additions, Southwest Corner Nineteenth and Pine streets, Philadelphia. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, William Finkel, on premises. Carpentry and mill work, plastering, painting and glazing, bulk windows, hot water heat, electric light, tile work, ornamental iron work. Contract awarded Charles Maenner, 3335 North Fifteenth street, Philadelphia.

The Shelton Hotel, 1709-15 Locust street to 1708-14 Chancellor street. Architect, Arthur L. Harmon, 19 West Forty-fourth street, New York City. Owners, Philadelphia Shelton Corporation, care of N. J. Taube, Eighteenth and Chestnut streets. Stone, brick, steel, concrete, 20 stories, slag roof, hardwood floors, composition floors, elevator, safety treads, steam heat, electric light, tile, marble and terrazzo work, rolled steel sash, hollow metal skylights, ornamental iron work, terra cotta. Contract awarded Foundation Co., 120 Liberty street, New York. (Note change in contractor.)

Parish Buildings (alts. and add.), Springfield avenue and Farragut Terrace. Architects, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, St. Francis De Sales, Rt. Rev. M. J. Crane, Forty-seventh and Springfield avenue, Philadelphia. Stone, reinforced concrete, steel, granite, brick, 3 stories and basement, 121x68 feet, slag roof, cement, pine floors, hollow tile, plumbing, roof

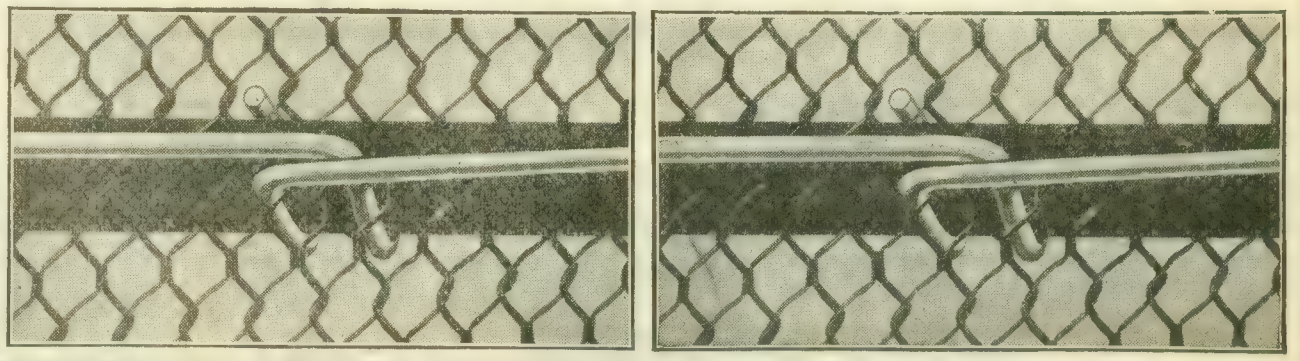
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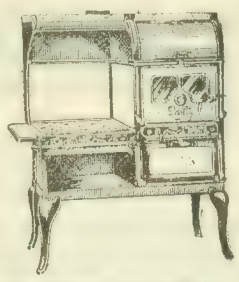
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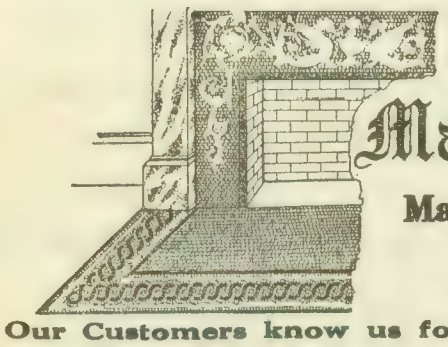
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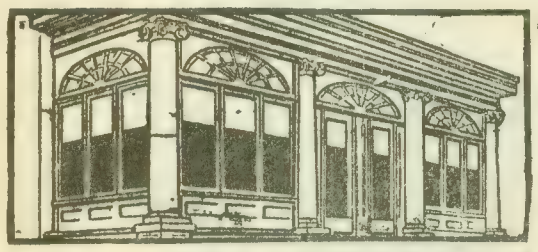
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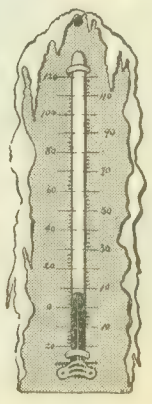
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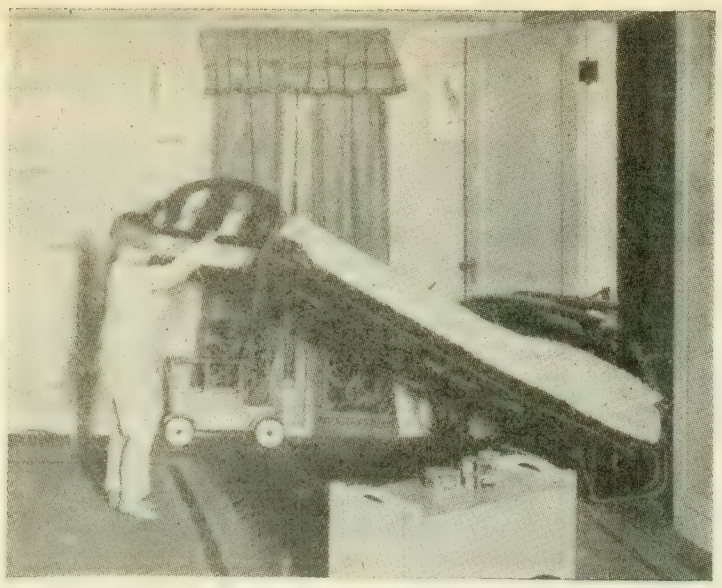
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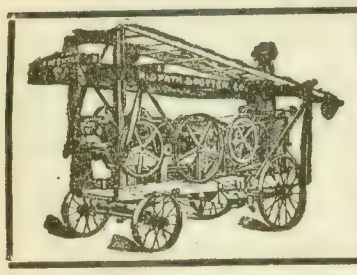
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ventilators, hollow metal sash, steel and tin-clad doors, ornamental iron work, area gratings. Contract awarded Farrell-Roth Const. Co., 123 South Twenty-first street, Philadelphia.

Ice Plant (add.), Hegerman, Hellerman streets, Tacony, Pa. Architect, private plans. Owners, Kensington Hygeia Ice Co., on premises. Brick, steel, 1 story and basement, 90x150 feet, slag roof, cement floors. Contract awarded George Kessler Cont. Co., 1733 North Marvine street, Philadelphia.

Residences (2) (alts. and add.) to Apartments, 118-120 North Fiftieth street, Philadelphia. Architect, Louis J. Tunis, 1600 Arch street, Philadelphia. Owner, Maurice Blackman, 642 North Eighth street, Philadelphia. Brick, stucco, 3 stories, 40x50 feet, additions, general alterations to present building, steam heat, electric light, tile, metal lath, red tile and slag roof, hardwood floors, plumbing, terra cotta. Contract awarded Arthur Rovner, 5214 Diamond street, Philadelphia.

Residence (add. and alts.), 1009 Westview street, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Robert T. McCracken, Morris Building, Philadelphia. Stone, 1 story, irregular size, shingle roof, pine and flagstone floors, tile and marble work, hot air heat, electric light (heating, plumbing and electrical work reserved). Contract awarded to R. C. Ballinger, 925 Walnut street, Philadelphia.

Residence (alts. and add.) and Garage, Wissahickon avenuue, North of Price street, Philadelphia, $6,000. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Reba Coulter Fox, care of architect. Bond, stone work, cut stone, steel and iron work, carpentry, mill work, slag roof, hardwood floors, plastering, electric work, painting, plumbing, tile work (heating reserved), garage, stone, 1 story, 17x18 feet. Contract awarded to A. V. Gilchrist, Drexel Building, Philadelphia.

Stores and Residence, 5845 Germantown avenue, Philadelphia. Architects, Lippincott & Schaff, 11 South Sixteenth street, Philadelphia. Owner, Max Lewis, on premises. Brick, cut stone, steel, linoleum and composition floors, plumbing, incinerator, steam heat, electric light, metal lath, tile and marble work. Contract awarded L. Rosengarten, Otis Building, Philadelphia.

Manufacturing Building, Chadwick and Lehigh avenue, Philadelphia. Architect, private plans. Owners, Charles H. Elliott Co., Seventeenth and Lehigh avenue, Philadelphia. Brick, slow burning, 4 stories, 42x48 feet, steam heat, electric light, slag roof, wood floors. Contract awarded Harry Gill, Jr., 2515 Germantown avenue, Philadelphia.

Store Building (alts. and add.), 2206 Walnut street, Philadelphia. Architects, Lippincott & Schaef, 11 South Sixteenth street, Philadelphia. Owner, Fred Bauer, on premises. Maple floors, carpentry, mill work, plastering, painting and glazing, metal bulks. Contract awarded to John Schnabel, Abbott Building, Philadelphia.

Meat Storage Building (repairs), Northeast Corner Ninth and Girard avenue, $20,000. Architect, private plans. Owners, Swift & Co., Ninth and Girard avenue, Philadelphia. General fire repairs. Contract awarded to Barclay White & Co., 1713 Sansom street, Philadelphia.

Office, Rising Sun avenue, South of Bristol street, Philadelphia, $4,000. Architect, private plans. Owners, Bauer & Maus, on premises. Brick, 1 story, 18 feet 8 inches x 22 feet 8 inches, slag roof, pine floors. Contract awarded to I. A. Dunkelberger, 71 East Herman street, Philadelphia.

Store and Residence (alts.), 5025 Baltimore avenue, $3,000. Architect, private plans. Owner, A. B. Hart, 5025 Baltimore avenue, Philadelphia. General alterations. Contract awarded to William H. Erbe's Sons, 4533 Springfield avenue.

Residence (add. and alts.), 409 Pine street, Philadelphia, $11,400. Architect, private plans. Owner, B. Rosapp, Southwest Corner Fourth and Pine streets, Philadelphia. Brick, 3 stories, 15x25 feet, general alterations. Contract awarded to T. Negire, 1809 South Fourth street, Philadelphia.

Residence (alts.), 208 South Forty-second street, Philadelphia, $5,500. Architect, private plans. Owner, M. A. Maloney, 1021 South Sixtieth street, Philadelphia. General alterations and new heating. Contract awarded to Arthur McIntyre, 105 North Gross street, Philadelphia.

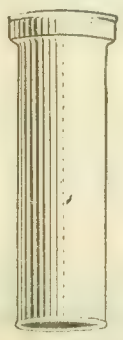
Residence (add. and alts.), 1445 Point Breeze avenue, $2,600. Architect, private plans. Owner, F. Cohen, Atlantic City, N. J. Brick, 1 story add., 2 feet 6 inches x 14 feet, general alterations. Contract awarded to A. J. & S. Cont. Co., 2339 South Eleventh street, Philadelphia.

Apartment House (alts.), 3601-05 Walnut street, Philadelphia, $8,000. Architect, private plans. Owner, Ira Gore, 1742 Georges Lane, Philadelphia. General alterations. Contract awarded to William Burstein, Northeast Corner Sixty-first and Walnut streets.

Milk Building (add.), 4709 Lancaster avenue, Philadelphia, $2,000. Architect, private plans. Owners, Supplee-Wills-Jones Co., on premises. Stack. Contract awarded to H. J. Webster, 702 Harrison Building, Philadelphia.

Residence, 1920 Panama street, Philadelphia, $25,000. Architect, Alexander M. Adams, 1012 Walnut street, Philadelphia. Owner, W. B. Stinson, care of architect. Brick and stone,

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3 stories, 32 feet 5 inches x 38 feet, 13 feet 5 inches x 14 feet 2 inches, hardwood and pine floors, hot water heat, electric light. Contract awarded to John B. Kelly, 2313 Walnut street, Philadelphia.

Office Building (alts.), 1013 Chestnut street, Philadelphia, $9,000. Architect, private plans. Owner, Morris Haber, 1001 Chestnut street, Philadelphia. General alterations. Contract awarded to S. Yellin & Son, 222 North Eleventh street, Philadelphia.

Garage, 821-23-25-27 North Third street, Philadelphia, $8,000. Architect, private plans. Owner, Joseph T. Ortleib, 845 North Third street, Philadelphia. Brick, 1 story, 70x117 feet, slag roof, cement floors, electric work. Contract awarded t oCarl Muller, 845 North Third street, Philadelphia.

Residence, Northeast Corner Dittman and Millett streets, Philadelphia, $5,500. Architect, private plans. Owner, Edwin Coulson, 1715 Kinsey street, Philadelphia. Frame, 2 stories, 26x36 feet, hot air heat, electric light. Contract awarded to Seely & Co., 1504 Locust street, Philadelphia.

Warehouse (add. and alts.), 1224 West Columbia avenue, $4,000. Architect, private plans. Owners, Endicott Co., on premises. Brick, 3 stories add., 18x25 feet, general alterations. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Garage, 1010-12-14 Reno street (rear), Philadelphia, $2,240. Architect, private plans. Owners, Paul & Fox, Southwest Corner Fifth and Moore streets, Philadelphia. Brick, 1 story, 28x52 feet, slag roof, cement floors, electric work. Contract awarded to E. C. De Berry, 4241 Powelton avenue, Philadelphia.

Light Manufacturing Building (alts.), 1023 Arch street, $7,500. Architect, private plans. Owner, William Goldskin, 1415 Locust street, Philadelphia. General alterations. Contract awarded to S. H. Levin, 1415 Locust street, Philadelphia.

Store and Residence (alts.), Southeast Corner Thirteenth and Susquehanna avenue, $2,500. Architect, private plans. Owner, S. Weiner, on premises. General alterations. Contract awarded to M. Brenner, 2034 South Fifth street, Philadelphia.

Pennsylvania Construction News

Sewer, Darby, Pa. Engineer, A. F. Damon, Sixty-ninth and West Chester pike, Pa. Owners, Borough of Darby, O. H. Smith, Sewer Commission, Darby, Pa. Construct approximately 450 feet length of terra cotta sewer. Owners taking bids due March 1st, Municipal Building, Main and Ridge, Darby, Pa.

Farm House (alts. and add.) to Residence, Paxon Hollow road, Marple Township, Delaware County, Pa. Architect, Henry L. Reinhold, 1513 Walnut street, Philadelphia. Owner, Dr. Jules Blechschmidt, 2203 Walnut street, Philadelphia. Stone work, cement work, oak floors, variegated slate roof, carpentry and mill work, plastering, plumbing, hot water heat, electric light, metal lath, tile work. Architect taking an approximate bid due as soon as possible.

Manufacturing Building, Pittsburgh, Pa. Architect, Albert Kahn, Detroit, Mich. Owners, Heinz Vinegar Co., Pittsburgh, Pa. Architect taking bids.

Residence (alts. and add.), Bryn Mawr, Pa. Architect, Ralph Colton, 225 South Sydenham street, Philadelphia. Owner, Dr. Charles G. Fenwick, on premises. Stone, 2 stories and basement, 16x30 feet, shingle roof, oak floors, hot water heat, electric light, tile work. Revised plans in progress.

Residence and Garage, Cynwyd, Pa. Architects, H. Rex Stackhouse and W. W. Donohue, 1120 Locust street, Philadelphia. Owner, James McKeon, 3750 Powelton avenue, Philadelphia. Hollow tile, stucco, 2½ stories, 35x42 feet. Plans in progress. Too early for details.

Church and Sunday School, Narberth, Pa. Architect, Alexander M. Adams, 1012 Walnut street, Philadelphia. Owners, Narberth Methodist Episcopal Church, Rev. W. S. Dawson, Narberth, Pa. Stone, 1 story, 42x70 feet, 30x80 feet, sltae roof, maple floors, steam heat, electric light. Plans in progress.

Mill Building, Lebanon, Pa. Engineers, William Steele & Son, 219 North Broad street, Philadelphia. Owners, Lebanon Hosiery Mills, care of engineer. Brick, steel. Plans in progress. Details undecided.

Residences (49), Bywood, Pa. Architect, private plans. Owner, Frank H. Benham, 5213 Chestnut street, Philadelphia. Concrete block, frame, stucco, 2½ stories, 18x36 feet, tile and shingle roof, hardwood and tile floors, hot water heat, electric light, tile work, garages attached, ornamental iron work. Owner taking sub-bids in 10 days.

Residence and Garage, Merion, Pa. Architects, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owner, A. J. Maguire, Cynwyd, Pa. Stone, frame, stucco, 2½ stories, 28x56 feet, slate or shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for sub-bids.

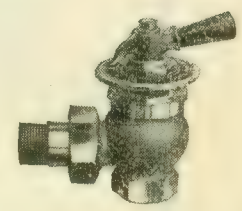
Residence and Garages (3), Narberth, Pa. Architects, Henry D. Dagit & Sons, 1329 Race street, Philadelphia. Owners, H. D. Dagit & Brother, 1329 Race street, Philadelphia. Stone, frame, stucco, 2½ stories, 28x56 feet, hot water heat, electric light, tile work, slate or shingle roof, hardwood floors. Architects ready for sub-bids.

Filter and Pump Station Building, Phoenixville, Pa. Architect, private plans. Owners, Philadelphia Suburban Water Co., care of Mr. Crawford, Fox Building, Philadelphia. Brick, steel, bluestone, 1 story, 154x68 feet .heating, electric work reserved), slag roof, cement floors, glazed brick, 6 reinforced concrete filters 1,000,000 gallons each. Owners will take bids in one week.

Office Building, Bryn Mawr, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Philadelphia Suburban Water Co., Mr. Crawford, Fox Building, Philadelphia. Brick, stucco, steel, concrete, 2 stories, 1 story, 50x100 feet, 25x40 feet, slag roof, concrete and linoleum floors, hot water heat, electric light. New plans about com-

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This ring prevents the lower portion of the firebed from coming in contact with the water sections which surround the firepot. The cool water returning from the radiators, enters both sides of the boiler at the bottom of the water section. This water, because it is much cooler than the fire, chills the fire around the sides of the pot, below the temperature of combustion. The result is, that the boiler requires more frequent attention. Also, partly burned fuel along the sides of the firepot is wasted because there is no fire under it to burn it and it settles down to the grates, passing to the ashpit when the fire is shaken.

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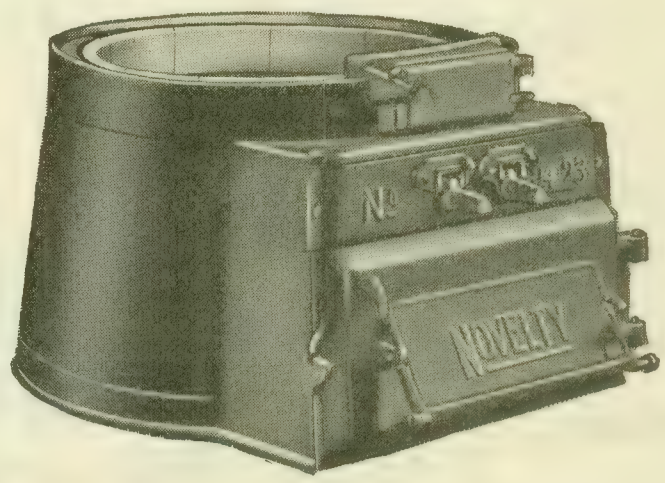


Illustration of Combustion Ring

pleted. Architect will take bids in a few days. (Note architect.)

Assembly Hall (alts.), Bustleton, Pa. Architect, Christian H. Fries, Drexel Building, Philadelphia. Owner, name withheld. Stone, outside stucco, 1½ stories, L. P. steam heat, electric light, tile work, slate roof, pine floors, kitchen equipment, plumbing, gas ranges. Architect will be ready for bids in 3 weeks.

Residence (alts. and add.) to (2) Stores and (2) Apartments, Bustleton. Architect, Christian H. Fries, Drexel Building, Philadelphia. Owner, name withheld. Stone, stucco, 2 stories add., 20x40 feet, tin roof, pine floors, hot water heat, electric light, copper bulks, plate glass, iron cellar doors, cement work, plumbing. Sketches in progress. Ready for bids in one month.

School, Satboro, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School Board of Education, Hatboro Township, Hatboro, Pa. Brick, 1 story. Owners will be ready for bids in one month.

Schools (4), Abington, Roslyn, Overlook Hill, Willow Grove. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Township of Abington, Pa. Plans will be ready for builders February 16th.

Dutch Colonial Residence, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, A. J. Robinson, Third avenue, Royersford, Pa. Brick, 2 stories, 25x34 feet, asbestos shingle roof, yellow pine and oak floors, Morgan doors, steel and wood sash, tile work (heating, plumbing and lighting reserved). Plans in progress. Owner will take bids.

Twin Residences (5 pairs), Ashbourne and Croyden road, Rowland Park, Cheltenham, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, R. M. Webb, Rowland Park, Cheltenham, Pa. Brick, frame, stucco, 2 stories, 20x34 feet, shingle and tile roof, hardwood floors, hot water heat, electric light, tile work, garages, 10x18 feet each. Owner ready for sub-bids.

Residence, Ashbourne and Croyden roads, Rowland Park, Cheltenham. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, R. M. Webb, Rowland Park, Cheltenham, Pa. Brick, frame, stucco, 2 stories, 24x35 feet, wing 14x14 feet, shingle and tile roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for sub-bids.

Bank (alts. and add.), Lawndale, Pa. Architect, Chrhistian H. Fries, Drexel Building, Philadelphia. Owners, Lawndale Bank & Trust Co., on premises. Brick, limestone, steel, 2 stories add., 47x37 feet, slag roof, cement and pine floors, painting and glazing, steam heat, electric light, metal lath, tile and marble work, ornamental iron work. Architect taking bids due February 15th, 3 P. M.

Store (alts.), Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Bush & Bull Corp., 559 Main street, Bethlehem, Pa. Steel work, bronze sash, marble work, leaded glass, hardwood and rubber tile floors, general alterations. Plans in progress.

Hotel Building (add. and alts.), Pittsburgh, Pa. Architects, Webber & Wurster, 1530 Locust street, Philadelphia. Owners, General Forbes Hotel, on premises. General alterations to present building and 13-story addition. Sketches drawn. Plans in progress. Will take bids in about three weeks.

Residence and Three-Car Garage, Haverford road, Ardmore, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, H. W. Rickabaugh, care of architects. Stone, tile and frame, 2½ stories, 32x45 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, (3) baths. Plans in progress.

Warehouse, Allentown, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owners, Reber, Korn & Co., 219 North Lumber street, Allentown, Pa. Brick, steel, 1 story, 40x100 feet, slag roof, concrete floors (heating reserved), electric light, rolled steel sash, fire doors, garage doors. Plans in progress.

Grade School (add.), Swarthmore, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Board of Education, Swarthmore, Pa. Four or five-room additions. Plans (preliminary) in progress. **Details undecided.**

Goodhart Hall, Bryn Mawr College, Bryn Mawr, Pa. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owners, Bryn Mawr College, Dr. Marion Edwards Park, president, Bryn Mawr, Pa. Stone, 1 and 2 stories and basement, 108x64 feet, slate roof, steam heat, electric light. Revising plans. Architects will be ready for bids in a few days.

Residence, Richboro, Pa. Architect, Harry Parker, 1120 Locust street, Philadelphia. Owner, name withheld. Stone, 2½ stories, slate roof. Plans in progress.

Apartment House, Northampton, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Adam Brucher, Jr., 735 Main street, Northampton, Pa. Frame, 3 stories, 45x70 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, tile work. Architect will be ready for bids the first of the week.

Residence and Garage, Newtown Square, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Casper Bongiovanni, Merion, Pa. Stone, 2½ stories, 32x45 feet, garage 25x35 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owner will build.

Residence, Nazareth, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, David Koch, Nazareth, Pa. Brick, 2 stories, 24x30 feet, slate roof, hardwood floors, hot water heat, electric light. Architect taking bids due in two weeks.

Moving Picture Theatre, Store and Apartment, Garrett, East of Market street, Drexel Hill, Pa. Architect, not yet selected. Owner, Herbert Effinger, 1631 West Ruscomb street, Philadelphia. Size of lot 130x136 feet, 300 feet, irregular. Work contemplated.

Church (add.), Cedar lane and West Chester pike, Highland Park. Owners, Holy Sacrament Episcopal Church, Rev. George Barnes, Highland Park, Pa. Stone. Work contemplated.

Road Work, Pennsylvania. Owners, State Department of Highways, Harrisburg, Pa. Owners taking bids due March 2nd at 10 A. M.

Beaver County, R-538, Section 2, Hanover and Green Townships, 28,913 feet. One course reinforced concrete. Certified check, $3,500.

Bedford County, R-356, A-2816-3363, Londonderry Township, 26,658 feet. One course reinforced concrete. Certified check, $3,500.

Bradford County, R-241, Sec. 4, Wyalusing Borough, Wyalusing, Standing Stone Townships, 36,436 feet. One course reinforced concrete. Certified check $4,000.

Cambria County, R--234, A-3577-3923, Sec. 1, Reade Township, 19,461 feet. One course reinforced concrete. Certified check $3,000.

Crawford County, R-447, A-3819, Summit and Sadsbury Townships, 11,565 feet. Either bituminous wearing surface on a concrete base or one course reinforced concrete. Certified check $2,500.

Dauphin County, R-140, A-3689, West Hanover and East Hanover Townships, 14,610 feet. One course reinforced concrete. Certified check $2,500.

Delaware County, A-133, Sec. 5, Haverford Township, 10,797 feet. One course reinforced concrete. Certified check $2,500.

Jefferson and Clearfield Counties, R-59, A-3525-3526-3794, Sandy and Washington Townships, Falls Creek Borough, 9,679 feet. One course reinforced concrete. Certified check $2,000.

Lehigh County, R-175, Whitehall and North Whitehall Townships, 15,657 feet. One course reinforced concrete. Certified check $2,500.

Montour County, R-182-240, A-3765, Danville Borough, 4,458 feet. One course reinforced concrete. Certified check $1,500.

Schuylkill County, R-161, Sec. 2, Frackville, Gilberton Boroughs, West Mahanoy Township, 8,719 feet. One course reinforced concrete and vitrified brick pavement. Certified check $2,000.

Somerset County, R-50, A-3137-A, Lower Turkeyfoot Township and Confluence Borough, 8,137 feet. One course reinforced concrete. Certified check $2,000.

Washington County, R-242, Sec. 3, A-3703-3617, West Middleton Borough, Hopewell and Canton Townships, 32,360 feet. One course reinforced concrete. Certified check $4,000.

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SURETY BONDS

Pennsylvania Contracts Awarded

Residences, Nos. 6-7, Haverford, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, cut stone, 2½ stories and basement, 81x31 feet plumbing, heating, electric and refrigeration reserved), variegated slate roof, slag roof, oak and pine floors, metal lath, tile work, ornamental iron work. Contract awarded J. E. Kearney, Wynnewood, Pa.

Garage, No. 62, Haverford, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Contract awarded J. Howard Roberts, Upper Darby, Pa.

Residence, Ardmore, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, John A. Wilson, Ardmore, Pa. Cinder concrete block, plaster, 2½ stories, 30x40 feet, garage 10x18 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, (3) baths). Plans in progress. Contract awarded to Merion Const. Co., Ardmore, Pa.

New Jersey Construction News

Stores (5), Apartments (6), Residence, Main and High streets, Glassboro, N. J. Architect, Louis Joseph Tonk, Schaff Building, Philadelphia. Owner, S. Kotler, Glassboro, N. J. Brick, tile, hardwood floors, slag roof, hot water heat, bulk windows, plate glass, electric light. Plans in progress.

Residences (69), Fourth street and Atlantic avenue, Camden, N. J. Architect, Louis Joseph Tonk, 303 Schaff Building, Philadelphia. Owners, Herbert V. Realty Corp., Atlantic City, N. J. Brick, plate glass, hardwood floors, hot water heat, slag roof, electric light. Plans in progress.

Stores and Apartments (5), Clinton and Hamilton streets, Trenton, N. J. Architect, L. S. Caplan, Fitzcharles Building, Trenton, N. J. Owner, Benjamin Robinson, care of architect. Brick, limestone, steel, 2 stories, 40x100 feet, hardwood and tile floors, metal ceilings, rolled steel sash, tile and marble, wood and metal lath, steam heat, electric light. Plans in progress.

Bank Building, Moorestown, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Burlington County Trust Co., J. P. Hopkins, president, Moorestown. Stone, steel, concrete, 2 stories, 50x125 feet. Plans in progress.

Warehouse, Atlantic City, N. J. Architect, not yet selected. Owners, The Crane Co., 836 South Michigan Boulevard, Chicago, Ill. Too early for details.

Apartment House, Ventnor Heights, N. J. Architect, W. A. Hewitt, Guarantee Trust Building, Atlantic City. Owner, Clifford T. Wilkins, Westville, N. J. Stucco, 3 stories, 21x65 feet, asphalt shingle roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Apartment House, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, H. J. Jackson, care of architect. Brick, 2 stories, 45x115 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Bank and Office, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Bankers' Trust Co., 1210 Atlantic avenue, Atlantic City. Fireproof, 4 stories, 25x120 feet. Plans in progress.

School (add.), Troy avenue, Ventnor, N. J. Architects, Stout & Reibenach, Guarantee Trust Building, Atlantic City. Owners, Ventnor School Board, Miss Maulick, secretary, Ventnor, N. J. Brick, steel, 2 stories and basement, 14 rooms and auditorium, slag roof, harrwood floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, vapor heat, electric light, metal lath, tile and marble, skylights, bond, iron stairs, ornamental iron work. Will be ready for bids in one week.

Bridge, over Reading Railroad, between Haddon Heights and Audubon, N. J. Owners, Reading Railroad and Boroughs of Haddon Heights and Audubon, N. J., Mayor F. H. Unham, Haddon Heights, N. J. Steel, concrete. $166,000. Work contemplated.

Stores and Apartments (2) (alts.), from Residence, Collingswood, N. J. Architect, G. Herbert Radey, 723 Haddon avenue, Collingswood, N. J. Owners, A. E. Field & Bro., 630 Haddon avenue, Collingswood, N. J. Brick, cast stone, 2 stories, 36x55 feet, slag roof, pine and mineral floors, hot water heat, electric light, tile work, metal bulks, copper cornices. Plans about completed. Architect ready for general bids.

Stores and Apartments (2), Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Charles Sheppard, Pleasantville, N. J. Concrete, 2 stories, 40x65 feet, slag roof, hardwood floors, metal ceilings, plate glass, tile work, hot water heat, electric light. Owner will build.

Residence, Tudor Terrace, N. J. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, Home Beautiful, care of architect. Concrete, block, stucco, 2 stories, 40x60 feet, hot water heat, electric light, tile work, concrete tile roof, hardwood floors. Architect will take general and sub-bids.

Stores (2), Apartments (4), 221-23 Main street, Haddonfield, N. J. Architect, Louis Joseph Tonk, 303 Schaff Building, Philadelphia. Owners, F. & L. Realty & Finance Corp., 149 East Main street, Haddonfield. Brick, 3 stories, 33x55 feet, slag roof, pine floors, hot water heat, electric light, tile work, plate glass. Owners will take bids.

Factory, Southeast Corner Ninth and Liberty streets, Camden, N. J. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Congress Cigar Co., Third and Spruce streets, Philadelphia. Reinforced concrete, brick, 4 stories and basement, 160x100 feet, slag roof, cement floors, hollow tile, safety treads, steam heat, electric light, hollow metal sash, rolled steel skylights, steel doors, bond, ornamental iron work, metal toilet partitions, tin covered doors, area gratings. Architect taking bids due February 13th at noon.

School, Colwick, N. J. Architects, Edwards & Green, Camden, N. J. Owners, School Board of Delaware Township, N. J. Plans will be ready for builders in a few days. Owners will take bids February 23rd.

New Jersey Contracts Awarded

Ice Storage Building and Delivery Room, Pleasantville, N. J. Architect, C. Leslie Weir, 41 East Forty-second street, New York City. Owners, American Ice Co., care of Mr. Lee, 121 North Broad street, Philadelphia. Reinforced concrete, asbestos shingle, 2 stories, 112x40 feet, Barrett specification roof, cement floors, painting and plumbing, roof ventilators, shoring, bond, ornamental iron work, cork insulation, wrought iron. Contract awarded Mortensen & Co., New York City.

Dining Hall, Home for Feeble Minded, Vineland, N. J. Architect, A. B. Mills, Division of Architecture and Construction, State House, Trenton, N. J. Owners, Department of Institutions and Agencies, State House, Trenton, N. J. Hollow tile, brick, steel, 1 story, 50x146 feet, slate roof, roof ventilators, terrazzo floors, waterproofing and dampproofing, metal lath, skylights, steam heat, electric light. Contract awarded to Thompson-Lockhart Co., Fifty-seventh and Walnut streets, Philadelphia, $51,389. Plumbing to William L. Bagg, Vineland, N. J., $1,880. Heating to William L. Bagg, Vineland, N. J., $4,200. Electric to Lyons App. Co., Bridgeton, N. J., $590.

Locker Building and Swimming Pool, Pyne Point Park, Camden, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, City of Camden, Department of Public Highways and Parks, Camden, N. J. Contract awarded Prince Const. Co., Merchantville, N. J., $22,970. Plumbing Charles Leopold, Camden, N. J., $3,445.

Store, Arkansas avenue and Boardwalk, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Associated Realty Co., Mr. Hill, on premises. Brick, steel, concrete, hollow tile, 1 story and basement, 75x85 feet, slag roof, hot water heat, electric light, tile and terrazzo work. Contract awarded to P. G. Hannum, Georgia avenue, Atlantic City, N. J.

Club House, Airport Grounds, Atlantic City, N. J. Architects, Carrere & Hastings, 52 Vanderbilt avenue, New York. Owners, Department of Streets and Public Improvements, Atlantic City. Contract awarded to S. L. Litzie, 2235 Arctic avenue, Atlantic City, N. J.

Store, Office and Apartment, Brigantine Beach, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City. Owners, H. G. Harris Co., care of architects. Hollow tile, stucco, 2 stories, 60x48 feet, slag roof, hardwood floors. Contract awarded to S. Lippincott, Atlantic Ciy, N. J.

WHAT FIRE DOES TO AMERICAN FARMS

Next to the rustic conception of Mr. Wall Street as a frock-coated, silk-hatted rotundity mouthing a banded perfecto and toying with a cable-like watch-chain, probably no popular fancy is so far removed from reality as the city man's picture of the American farmer. Him the urbanite sees as a lank and unkempt figure garbed in soiled overalls, and chewing reflectively on a wisp of hay the while he listlessly scrapes the tynes of a pitchfork.

Preposterous to the nth degree are both visualizations. The farmer of today is an alert, progressive business-man. He lives and moves in an environment that has been modernized by the introduction of the automobile, the stationary gasolene engine and the telephone. His house is lit by electricity. He "listens in" on the radio and attends the movies; and there are sundry other devices and conveniences which he shares with the city dweller.

Going the rounds at the moment, it so happens, is a certain bucolic ballad which employs as a refrain the sentiment that "old Farmer Gray took another load away." The song is comical enough and is intended to be characteristic of American rusticity. That pretention, however,

is the funniest thing about it; for as a matter of fact whenever "Farmer Gray" or any of his neighbors does have occasion nowadays to transport fodder, it is a hundred to one bet that he loads it abaft the purring motor of a 4-ton truck. "Wal, I swan," as an expression of farmerdom, if it ever did pass current far from the madding crowd, has given way in recent years to "Put in another ten gallons—and make it snappy." No, it is a case now of *urbe in rus*.

All of which is by way of re-stating what has been noticed often recently—that farm life in the past few years has been enormously broadened and quickened and, generally speaking, greatly improved; improved, that is, in all material respects save in the vital one of fire-safety.

The truth is that both the city man and the farmer are modern in outlook and in methods, the one as much as the other, and more than one present-day problem they face in common. Of these none more urgently demands their solution than that of fire reduction. Circumstances naturally have forced the city man ahead of his country relative in the taking of preventive measures against fire and its ravages; but the ruralite can afford no longer to lag behind. Just why this is so appears in the facts pertaining to farm life loss.

A Farm Fire Every 15 *Minutes*

And what are these facts? Well, the first, the most significant and the most undeniable is that valuable farm property, scattered throughout the length and breadth of the country, is subjected to attack by the flames every quarter of an hour throughout the year. This is speaking, of course, upon the basis of averages; and let it be emphasized: *every quarter of an hour.*

In the five-year period from 1919 to 1923 the amount of the farm fire loss, as recorded by the Actuarial Bureau of The National Board of Fire Underwriters, reached a total of $141,157,930, or $386,734 a day. This figure represents the aggregate derived from 203,262 insurance claims and probably should be increased by 25% to allow for unreported and uninsured losses, of which this occupancy shows somewhat more than the usual number.

But even $141,157,930 is a sufficiently staggering and deplorable wastage. It means that the loss, if apportioned equally among all claims, would have reached $694, which is high for a classification of this character, where the average value, including land, buildings and machinery, is only about $10,000. Since, moreover, there are slightly less than six and one-half million farms in the United States, it is evident that one in every thirty-two had more or less disastrous experience with fire in these five years. Or, to phrase it otherwise, the number of loss claims for the whole country greatly exceeded the number of farms in the New England States. And this experience three-fourths of these farms need not have had, for the reason that carelessness and lack of knowledge of fire hazards, but principally the former, were chiefly responsible.

Lightning Leads

Leading all other causes of fire in American farmsteads during the five-year period under review was *Lightning*. From this element exactly $20,373,360 destruction was recorded from 1919 to 1923. This constitutes 14½% of the total farm fire loss.

For a number of years now, in fact ever since Actuarial Bureau records have been kept, *Lightning* has led all the causes of farm fires. Not yet, apparently, has the farmer's deep-rooted mistrust of the efficacy of rodding been overcome. In what may be called the early years: that is, in the era of the dishonest lightning-rod agent, much misinformation was broadcast throughout the length and breadth of rural America concerning the value of this means for averting lightning damage.

But with standard, approved equipment, such as is available today, and with knowledge of effectual installation easily obtained, it seems high time that the old impression were removed. Certainly, the up-to-date farmer rods his buildings, for by so doing he renders them practically immune to harmful visitation from the sky.

Second to *Lightning* as a farm fire hazard—almost, indeed, a "runner-up"—was *Defective Chimneys and Flues*. This factor inflicted damage amounting to $18,935,956, which represents 13½% of the total loss in this occupancy and provides definite evidence of the fact that in rural districts chimney construction and upkeep are flagrantly and notoriously bad. It is, moreover, to be noted that since 1919 a yearly rise of several hundred thousand dollars has been recorded in the loss total from this cause, indicating that farmers will be well repaid for giving to this hazard much earnest study.

It is a peculiarity of blazes originating in a flue or chimney that, the defect often being concealed, the flames sometimes gain great headway before being detected. "The fire," reads a characteristic report of a defective chimney blaze, "was not discovered until nearly the entire roof was in flames and the family was forced to rush to safety with scant opportunity to save the contents of the farm house." Hundreds of examples of defective flue and chimney fires might be instanced here as evidence of the insidious quality in fires of this kind. The problem of fire-safety on the farm hardly can begin to be attacked until sound chimneys erected on solid bases shall become the rule instead of the exception they are today.

Closely related to *Defective Chimneys and Flues* as an originating cause of fire in agricultural districts, and responsible for more than 8% of the total destruction was *Sparks on Roofs*. Against this hazard there was entered in the five-year period a loss of $11,433,751, every dollar being needlessly sacrificed, since *Sparks on Roofs,* as well as *Defective Chimneys and Flues,* is a wholly preventable hazard.

Matches-Smoking, fourth in importance among the fire hazards, inflicted $8,508,667 damage during the sixty months of 1919-1923. Of the total farm loss, slightly more than 6% was attributed to carelessness with matches and smoking materials. So often are the results of this type of unheed brought home to everyone through the medium of the newspapers and by personal observation, and so easily correctible is it by the exercise of plain common sense, that not the smallest excuse remains for *Matches-Smoking* taking the toll it did—and does—from American farm properties.

Barns Are the Seat of Greatest Danger

It is, of course, evident that the principal seat of fire danger on the farm is the barn. This is so not only because of its usually light frame construction, the hazard of *Open Lights* and the use of matches and smoking materials in close proximity to readily burnable contents, but because much of the produce stored therein is subject to spontaneous ignition. How real this danger is may be judged by the loss ascribed to *Spontaneous Combustion,* $7,130,158 which places it fifth among the fire causes, with a percentage of 5. Today *Spontaneous Combustion,* a partly preventable cause, holds fourth place after *Matches-Smoking* in point of culpability for the total American fire loss, which is sufficient to draw to it the attention of every rural resident of America.

Petroleum and Its Products stood sixth among all the known causes in farm occupancy and this again is one entirely avoidable, the introduction of the gasolene motor in its many forms being, of course, responsible. It taxed the country's farmers $6,247,154 in the five years ended with 1923.

Farm property destruction almost equal in extent to that occasioned by *Petroleum and Its Products* was attributed during the five-year period to *Stoves, Furnaces, Boilers and Their Pipes,* the exact amount being $5,998,413. This, again, is a hazard which can be overcome by the taking of ordinary precautions, such as the shielding of walls and flooring about heating appliances and the wrapping of tri-

butary pipes with suitable incombustible covering.

Another fire risk on the farm may be the incubator that is allowed to become overheated. Brooder lamps often are lit and placed in the chamber without careful inspection to see that the wick is turned to the right height. One farm woman who was guilty of this form of negligence was summoned by smoke and the cries of alarmed young chicks just in time to extinguish what, in five minutes more, might have reached the proportions of a serious communicating fire, for the brooder room adjoined the rear of the dwelling—in itself a structural defect.

Open Fires obviously are dangerous when left unscreened. *Hot ashes and Coals, Open Fires* also caused much damage to farm property in 1919-1923, because care was not taken with them. *Incendiarism and Arson* were present, too, as factors of farm destruction, as nearly $800,000 was lost due to the application of the torch.—*Safeguarding America Against Fire.*

The annual banquet of the Philadelphia Builders' Exchange and Employers' Association will be held at the auditorium of the Manufacturers' Club Thursday evening, February 11, at 7 o'clock.

Judge Robert Carey will be the speaker, and most likely his subject will be "Guilty or Not Guilty."

Building costs will be more inclined to seek lower levels than to mount during 926, according to indications drawn from statistics just compiled by the Associated General Contractors of America. Whether the downward tendency of these costs, manifested perceptibly in 925, will continue depends upon wage scales that will prevail during the coming year, the experts declare.

It is pointed out that costs dropped during 1925 to the lowest mark they had held in three years, and this despite the fact that the year saw all existing records for volume of construction broken. During this period, the average of wages paid in the construction industry showed practically no change.

A study of the newly-compiled statistics shows the average of prices paid by general contractors for the basic building materials was four per cent. lower in December than during the opening months of 1925.

With the housing situation fairly well met in many sections of the country, expectation that a decline in speculative building operations will put in its appearance during 1926 is being expressed. This anticipation, coupled with the growing conservative attitude of industry in general, leads to the conclusion that 1925 will stand as the peak year.

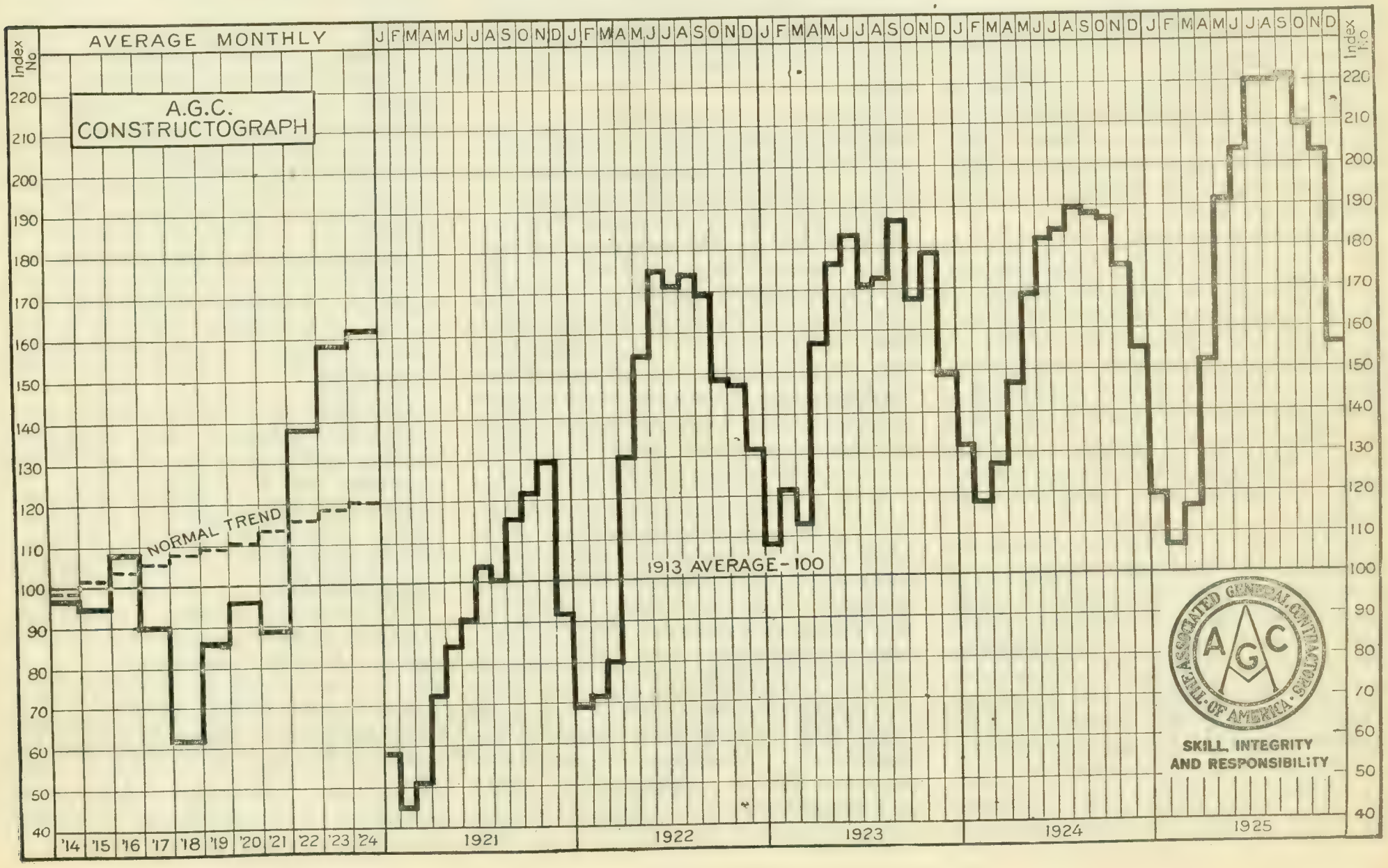
Success in the campaign for increase of construction operations during the winter months is shown by the December figures which topped all marks for volume of construction set by that month in previous years.

The volume of construction in 1925 was approximately 8 per cent. greater than that in 1924, the next highest mark in the history of the country.

The total volume of contracts awarded during the first eleven months of 1925 exceeded by 23 per cent. the total volume awarded during the corresponding period of 1924, the contractors' survey shows. While the volume recorded for November was 8 per cent. smaller than that shown in October, it exceeded the November, 1924, volume of awards by 21 per cent.

The volume of building permits issued in 20 principal cities during November was 9 per cent. smaller than the October figure. The volume of permits issued during the first eleven months of 1925 was 17 per cent. greater than the volume for the corresponding period of 1924.

Awards for concrete surface pavements during November totaled 3,500,000 square yards, 1,700,000 square yards of the total representing road pavement, with surfacing of streets and alleys supplying the remainder. The volume of concrete surface pavement awards for the first eleven months of 1925 exceeded by 17 per cent the total volume awarded during the corresponding period of 1924.



Reference Directory for Architects, Builders and Owners

ACCOUNTANT.
R. Landergin.....5523 Hadfield St., Phila.

ARCHITECTURAL IRON WORK
Quaker City Art Metal Works,
2445 N. Second St., Phila.

ARTESIAN WELLS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Robbins, Chas. H., Co.....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.

BRICK (Face, Common, Paving).
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.
Joseph Rotornado.....4740 Milnor St., Phila.

BUILDING BLOCKS.
Victor Concrete Products Co.,
Primos Station, Del. Co., Pa.

BUILDERS' SUPPLIES.
Service Supply Corporation,
20th and Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
Huskey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
Vineland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
The Van Sciver Corporation.
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
D'Lauro, John .....55 E. Mermaid Lane, Phila.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

COLUMNS (Metal).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE SEWER PIPE.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

CONCRETE WORK.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
Devitt, Paul J. .....1101 S. 2nd St., Phila.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation,
20th and Venango Sts., Phila.

CORK FLOORING
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

CURTIS WOODWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
Building News Pub. Co. ...1530 Chestnut St., Phila.

DAMPPROOFING.
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger.....829 N. 3rd St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1505 Race St., Phila.

DOOR BEDS
Murphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F. Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

EXCAVATING.
Harsch, Wm. F. .....Narberth, Pa.
McCarrick Bros.....3240 N. Fox St., Phila.
Sanitary Engineering Co.....40 S. 52nd St., Phila.

FENCES.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Potts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St,. Phila.

FINANCING (BUILDING)
Commercial Advance Corp., 1011 Chestnut St., Phila.
Abe Kolsky .....9th & Walnut Sts., Phila.
Mortgage Extension Corp..1011 Chestnut St., Phila.

FIREPLACE EQUIPMENT.
F. R. Rosen.....5327 Market St., Phila.

FIREPROOFING.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES.
J. E. Lingo & Son .....Camden, N. J.

FLOOR HARDENER.
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Concrete Waterproof Paint Co...829 N. 3rd St., Phila.
Truscon Laboratories.....1505 Race St., Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Cox, Abram, Stove Co., .Amer n and Dauphin Sts.
Fleck Bros. .....44 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.

GAS RANGES.
Abram Cox Stove Co.,
American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GRADING
Harsch, Wm. F. .....Narberth, Pa.

GRANITE
John Meehan & Son.....916 W. Dakota St., Phila.
Vineland Architectural Cast Stone Works,
Vineland, N. J.

HARDWARE (Builders').
Devitt, Paul J. .....1101 S. 2nd St., Phila.

HAULING CONTRACTORS.
McCarrick Bros.....3240 N. Fox St., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....7038 Gray's Ave., Phila.

HEATING BOILERS.
Cox, Abram, Stove Co.,
American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.

HOLLOW TILE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

HOT WATER GENERATORS.
Edwin Elliot & Co. .....1011 Chestnut St., Phila.

INSURANCE.
Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
1711 Chestnut St., Phila.
Smith-Austermuhl Co. .....Camden, N. J.

IRON AND STEEL BARS AND PLATES.
DeCou, Richard.....11th and Noble Sts., Phila.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Thos. H. Livezey & Co.,
Luzerne and American Sts., Phila.
Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
Nicetown Plate Washer Co., Inc.,
1844 W. Juniata St., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N Mascher St., Phila.
Potts, Horace T., & Co....Erie Ave. and D St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

KITCHEN CABINETS.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.

LEVELS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

LIGHTING FIXTURES.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LIGHT IRON CONSTRUCTION.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LINOTILE.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

LUMBER.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Ketcham, Howard.....3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

LUMBER (Wholesale).
J. Randall Williams & Co.,
1031 Commercial Trust Bldg., Phila.

MARBLE AND MOSAIC.
Acorn Tile Co. .....Clementon, N. J.
Belfi Bros. Co. .....1923 Market St., Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. .....433 Spruce St., Phila.
Roman Mosaic & Tile Co. .....435 Green St., Phila.
Wm. G. Wilson.....2313 Walnut St., Phila.

MASON BUILDER.
D'Lauro, John .....55 E. Mermaid Lane, Phila.

METAL LATH.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
John S. Raynor.....2300 E. Lehigh Ave., Phila.

METERS.
Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

MILLWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

ORNAMENTAL IRON.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.

PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS.
Weber, F., Co. .....125 S. 12th St., Phila.

PLASTERER.
Joseph Rotornado.....4740 Milnor St., Phila.

PLASTERERS' SAFETY CLIPS.
John S. Raynor.....2300 E. Lehigh Ave., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., Phila.

PORCH ENCLOSURES.
Malia, Thomas .....226 W. Mentor St., Phila.

RADIATOR CABINETS.
Radiator Cabinet Co. .....Drexel Bldg., Phila.

RANGES.
Cox, Abram. Stove Co., American and Dauphin Sts.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ....1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

REFRIGERATORS.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co.....1026 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.

REINFORCING BARS.
Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 7
February 17, 1926

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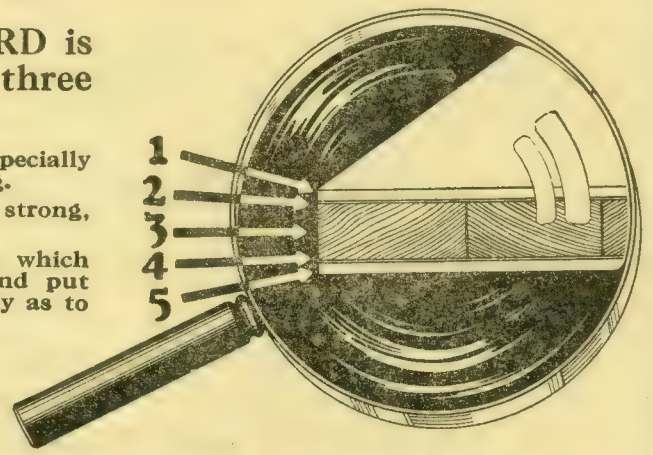
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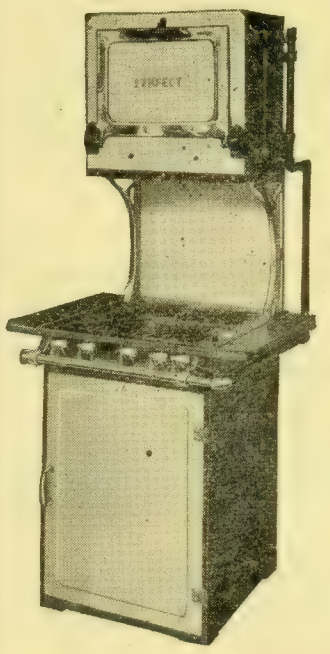
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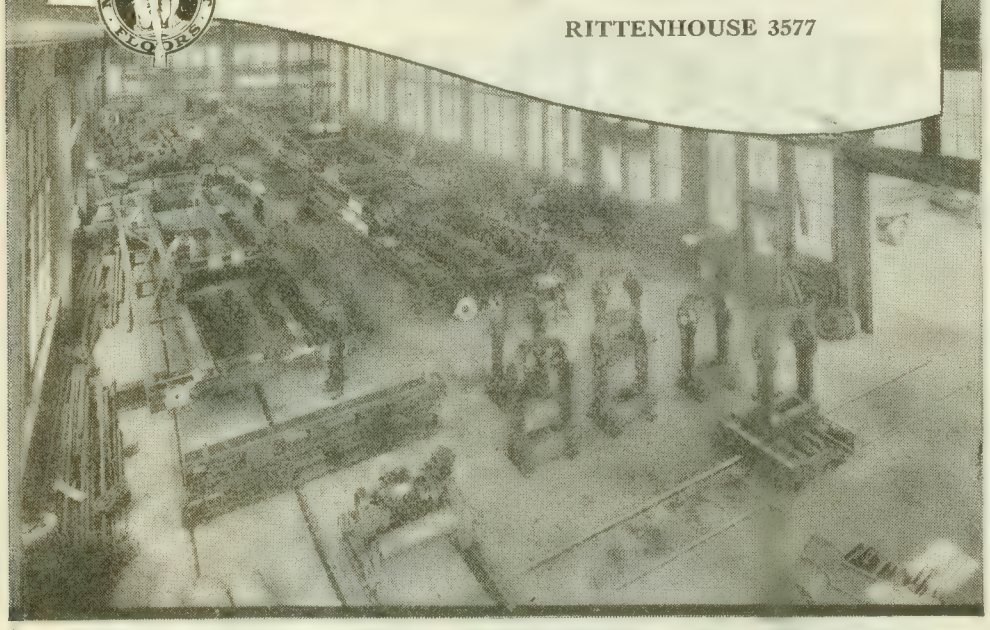
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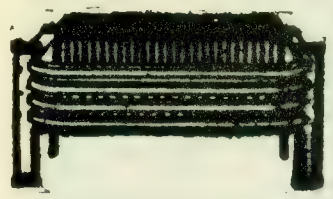
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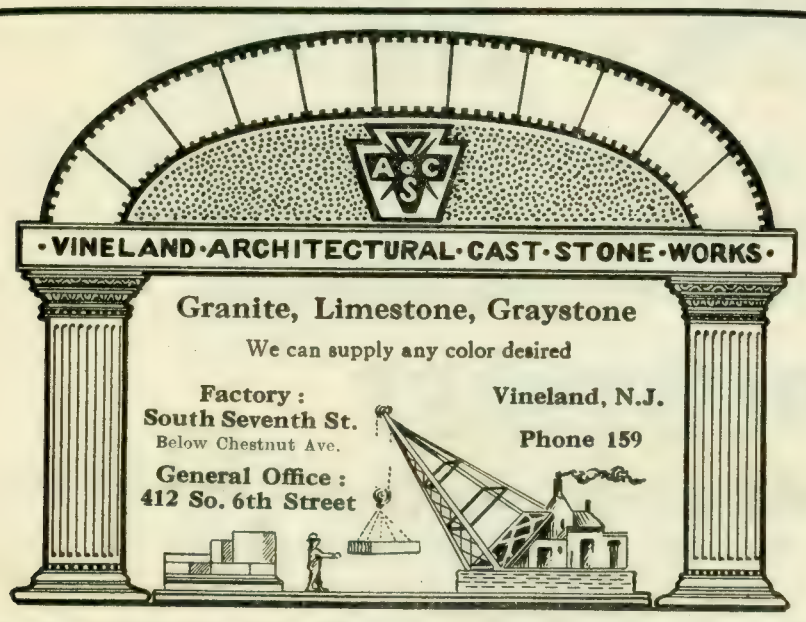
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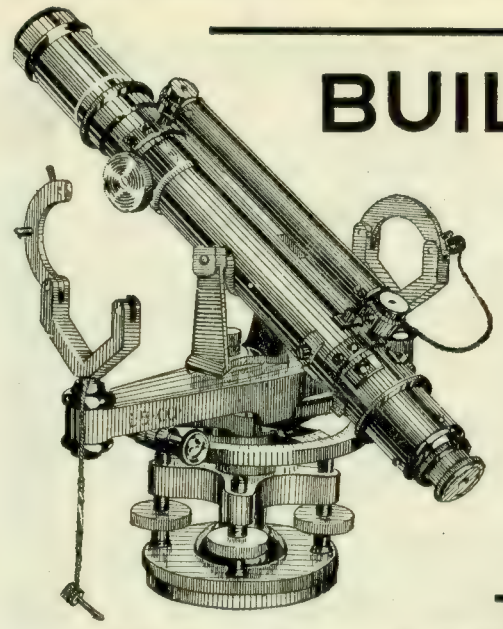
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
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February 17, 1926

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As The Editor Sees It

REASONS FOR CRACKS IN PLASTER EXPLAINED TO HOME BUILDERS

Acquaintance with disfiguring plaster cracks has been so general that it is often accepted as an inevitable fault which develops as a home ages. This is one of the misconceptions which has been corrected by the National Campaign for Better Plastering, sponsored by the National Council for Better Plastering. And there is developing an increased interest in the things which cause plaster cracks and means of preventing them.

In response to this increased curiosity concerning plaster, "The Small Home," the magazine of the Architects Small House Service Bureau, published an article entitled "Forty Reasons Why Walls and Ceilings Crack." It will be of interest to every architect and builder showing, as it does, how knowledge which formerly was known only by those identified with the building industry is being carried to laymen. The article says in part:

"Everyone is familiar with cracked walls and ceilings. Sometimes the reasons for the cracks are evident to everyone, but at others the reasons are not so plain to be seen. Sometimes the materials used are thought to be at fault when the real underlying cause of failure is that good materials have been used too sparingly or in a wrong manner. The best materials in the world, used without taking into consideration the limits of their strength, or not put together in ways tried and proven, will not give complete satisfaction.

"It is unfortunately true that thousands of small homes have been built which, in a comparatively short time, will deteriorate outrageously. It is a waste of money to use good materials in an unwise way. The Jerry builder who puts these materials together so that they do not stay put is really either making you the victim of his ignorance or is indulging, at your expense, in a form of legalized robbery."

Following are some of the reasons why walls and ceilings crack: Building a house on a fill; failure to make the footings wide enough; failure to carry the footings below the frost line; width of footings not made proportional to the loads they carry; posts in the basement not provided with separate footings; failure to provide a base raised above the basement floor line for the setting of wooden posts.

Not enough cement used in the concrete; dirty sand or gravel used in the concrete; failure to protect beams and sills from rotting through dampness; setting floor joists one end on masonry and the other on wood; wooden beams used to support masonry over openings; mortar, plaster, or concrete work allowed to freeze before setting; braces omitted in wooden walls.

Sheathing omitted in wooden walls (excepting in back plastered, metal lath, construction); drainage water from roof not carried away from foundations; floor joists too light; floor joists not bridged; supporting posts too small; cross-beams too light; sub-flooring omitted; wooden walls not framed so as to equalize shrinkage.

Poor materials used in plaster, plaster applied too thin; lath placed too close together; lath run behind studs at corners; metal reinforcement omitted on plaster at corners; metal reinforcement omitted where wooden walls join masonry.

Metal lath omitted on wide expanses of ceiling; plaster applied directly on masonry at chimney stack; plaster applied on lath that are too dry.

Too much cement in the stucco; stucco not kept wet until set; sub-soil drainage

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not properly keyed to backing; floor joists placed too far apart; wood beams spanned too long between posts; failure to use double joists under unsupported partitions; too few nails used; rafters too light or too far apart; failure to erect trusses over wide wooden openings.

—*Metal Lath News.*

RANGES AND COOKING EQUIPMENT

BY THOMAS B. HUNTER

Hunter & Hunter, Consulting Engineers

In designing a home, we all appreciate that the modern kitchen is quite as important as any room in the house. We all recognize that it must be clean, the cooking apparatus must be convenient and labor-saving. Cooking must be safe, dependable, healthful and easily controlled with a minimum of effort. What fuel best meets these requirements?

All domestic science classes of high schools and cooking schools, or nearly all; the kitchen departments conducted for exprimental purposes by the *Ladies Home Journal* and other recognized national authorities; the hotels, hospitals and restaurants—wherever good cookery is the first essential—use gas ranges.

Let us accept, then, that gas is an ideal fuel for use in the small home kitchen; that it is not only a scientific way, but a cleanly and economical way, to prepare food. We come, then, to the question of how the designer of a home should go about it to assure that the occupants of that home may have the advantage of the most modern cooking, water and house heating methods. Many architects are giving as much thought to the kitchens they build as to any other part of the house, and some carry it so far as the specifiying of the proper type of range and heater to be used.

In this connection, a friend remarked to me not long ago: "Why my kitchen is the most pleasant room in my house—and the most sensible. With its tiled sink drains, immaculate floor, enameled walls and convenient modern fixtures, and its spick and span enameled gas range, an oven which makes it unnecessary to stoop; thermostatic control so that a complete and appetizing meal may be prepared and left to cook automatically while we entertain company or go for a ride, it is a model of efficiency.

"You professional men who have to do with building ought to insist on every home you build nowadays having these conveniences. They are no longer luxuries or experiments; they are necessities."

It cannot be denied, then, that we should give some thought to the provisions we make for our kitchens and their equipment. In the case of gas ranges, the minimum flue area for the vent should be four inches in diameter. It is better practice to provide a flue at least six inches in diameter in order to allow for the incinerator's use at the same time all of the range burners may be turned on. When a battery of ranges make use of a common flue, as in an apartment house, the total area provided should be the equivalent of at least four inches in diameter for each range. Six inches is better.

Not only is the size of the flue important, but the flue outlet should be brought to the proper height above the roof. In every case, this height should be great enough to eliminate down draughts entirely. It should be higher than the highest point of the roof. There should be no deviation from this rule and yet an investigation would surprise you, for you would find that these important rules are violated almost every day.

In designing the kitchen, the range should be so placed that the lighting comes from either the right or the left. It is not necessary that a vented hood be installed to carry off the cooking odors and prevent them from penetrating the living rooms of the house, over a gas range. With a gas range, however, it is

(Continued on page 110)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Sesqui Buildings (Street of '76), Philadelphia. Architects, H. B. Okie, 306 South Smedley street; Bissell & Sinkler, 1520 Locust street, Philadelphia. Owners, Women's Committee of Sesqui-Centennial, Mrs. W. Martin, Fifth and Chestnut streets, Philadelphia. Approximately 14 buildings. Preliminary plans in progress. Too early for details.

Professional Offices and Apartment, Twentieth street below Pine street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, 3 stories, 3 stories add., 15x18 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, brick pointing, built-in kitchen equipment, plumbing, tile work. Plans in progress.

Stores and Loft Building, 9-13 North Third street and 140 Church street, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owner, care of architect. Steel, brick, stone, 3 stories and basement, 48x60 feet, 16x100 feet, irregular, slag roof, concrete and maple floors, metal ceilings, steam heat, electric light, metal lath, rolled steel sash and skylights, fire doors, bond, metal bulks, floor hardener, iron stairs. Plans in progress.

Garage and Sunday School, Northwest Corner Fifth and Bristol streets, Philadelphia. Owner, P. A. Goldberg, care Chas. Kahn, Morris Bldg., Philadelphia. Size of lot 225x123 feet. Work contemplated.

Building, 1524-42 Market street, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, 1524-42 Market Street Realty Co., care of Roy A. Heyman, 215 South Broad street, Philadelphia. Brick, steel, 2 stories, 156x76 feet. Plans about completed.

Synagogue (alts.), Oak Lane, Philadelphia. Architect, Ralph C. Goldberg, 1626 Chestnut street, Philadelphia. Owners, Congregation of Emanuel, care of architect. General alterations. Plans in progress.

Apartment House, Northeast Corner Forty-eighth and Chestnut streets, Philadelphia. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, name withheld. Brick, steel, limestone, 4 stories, 41x120 feet, wing 8x20 feet, will contain 40 apartments, vapor heat, oil burning, electric light, tile and marble work, hollow metal skylights, fire tower, kalamein doors, slag roof, hardwood, composition and linoleum floors, telephone system, incinerator, Murphy door beds, kitchen equipment. Plans in progress.

Addition, Sixty-second and Pine streets, Philadelphia. Architectural engineer, M. M. Boonin, 17 South Seventeenth street, Philadelphia. Owner, Samuel Cantor, on premises. Brick, 2 stories, 10x16 feet, slag roof, oak and pine floors, steel casements, store fixtures. Owner taking bids due February 20th.

Store Building, 25-29 North Sixtieth street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, G. & R. Furniture Co., on premises. Reinforced concrete, cast stone, brick, steel, 3 stories and basement, 85x48 feet (heating, oil burner, elevator, electric, sprinklers reserved), slag roof, maple floors, plumbing, painting and glazing, shoring, waterproofing, metal lath, tile and marble work, rolled steel skylights, fire doors, composition floors. Architect taking bids due February 20th.

Church (alts. and add.), Twelfth and Mellon streets, Philadelphia. Architect, C. Willis Gilmore, 2629 North Broad street, Philadelphia. Owners, Zoar Methodist Episcopal Church, Rev. W. H. Barnes, 1315 North Fifteenth street, Philadelphia. Brick, 2 stories and basement, 15x50 feet, steam heat, electric light, tin roof, pine floors, metal lath, ornamental iron work. Architect taking revised bids due February 18th.

Synagogue and Community Center, Northeast Corner Sixty-third and Ludlow streets, Philadelphia. Architects, Andrew J. Sauer Co., 1505 Race street, Philadelphia. Owners, West Philadelphia Jewish Community Center, on premises. Brick, steel, stone, 3 stories and basement, 179x108 feet, slag roof, cement, maple and linoleum floors, rolled steel sash and skylights, roof ventilators, architectural terra cotta, ornamental iron work, iron stairs. Architects taking bids due February 23rd before 10.30 A. M.

Factory, Seventeenth and Cambria streets, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owner, Robert McNeil, on premises. Brick, steel, 4 stories and basement, 60x100 feet (plumbing, heating, electric light, elevator reserved), slag roof, cement floors, ornamental iron work. Architect taking bids due February 23rd.

Professional Offices and Apartment, Twentieth street below Pine street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, H. C. Goodwin, Liberty Building, Philadelphia. Brick, 3 stories add., 15x18 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, brick pointing, built-in kitchen equipment, plumbing, tile work. Owner taking bids.

Bank Building, Northeast Corner Broad and Airdrie streets, Philadelphia. Architect, William H. Lee, Schaff Building, Philadelphia. Owners, National Bank of North Philadelphia, 3701 North Broad street, Philadelphia. Steel, concrete, limestone, brick, terra cotta, 9 stories, mezzanine and basement, 2 additional tower stories, 50x55 feet, concrete floors, elevators, steam heat, electric light, tile and marble work. Plans about completed. Will take bids in two weeks.

Store and Apartments (12), Elmwood, Sixty-fifth to Sixty-sixth, Philadelphia. Architect and owner, John E. Sindoni, Norwood and McKean sereets, Philadelphia. Brick, 2 stories, 15x57 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work, metal bulks, plate glass. Owner will build.

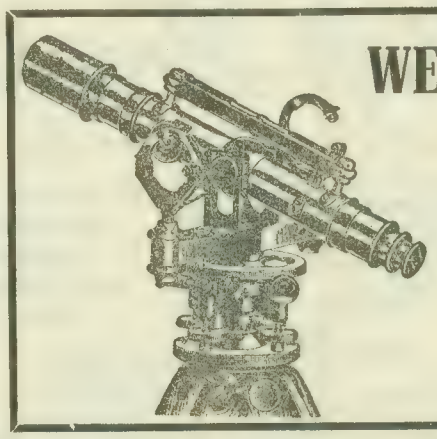
Residences (50), Chelwynde street, between Sixty-fourth and Sixty-fifth streets, Philadelphia. Architect, John E. Sindoni, Norwood and McKean streets, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Ready for subbids.

Residences (15), Sixty-second and Gibson avenue, Philadelphia. Architect, S. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Morris Abramson, 840 Jackson street, Philadelphia. Brick, 2 stories, 16x38 feet, slag and tin roof, hardwood and pine floors, hot water heat, electric light, metal lath, tile work, garages in basement. Owner taking subbids.

Sesqui Building, Philadelphia. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, State of Delaware, State House, Dover, Del. Frame, 1 story, 30x50 feet, shingle roof, metal lath. Owners will be ready for bids in one week.

Residences (50), Thirteenth and Spencer avenue, Philadelphia. Architectural engineer, M. M. Boonin, 17 South Seventeenth street,

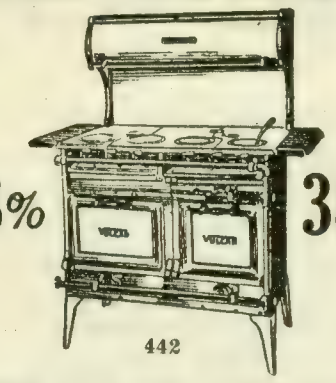
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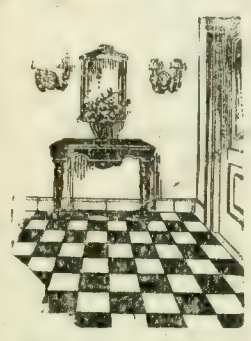
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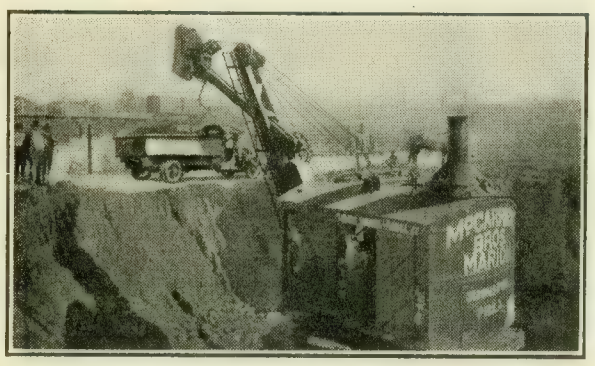
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Philadelphia. Owner, H. J. Altman, et al., 5949 Pine street, Philadelphia. Brick, stucco, 2 stories, 1x34 feet, 12x12 feet, slag and tile roof, oak and pine floors, hot water or vapor heat, electric light, tile bath. Owners taking sub-bids due as soon as possible.

Bachelor Apartment House (alts. and add.), 3328 Haverford avenue, Philadelphia. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, Alex. P. Lucker, Thirty-fourth and Haverford avenue, Philadelphia. Brick, limestone, third story add., 18x80 feet, will contain 15 one-room and bath apartments, slag roof, hardwood floors, kitchen equipment, telephone system, general alterations, Murphy door beds, tile and marble work, vapor heat extension, electric light. Plans about completed. Owner will build and will take sub-bids in one week.

Miscellaneous Work, Philadelphia. Page 2. Low bidders: Theodore street, Sixty-ninth to Seventieth street, H .H. Pizagno, 907 South Thirteenth street, Philadelphia, $5,851.30. Schedule B—Fortieth ward lowland drainage, W. H. Yetman, Lincoln Building, Philadelphia, $123,130. Schedule C, sewers and pumping station in connection South Philadelphia improvement, South Packer avenue, West of Broad street, Pennsylvania Engr. & Const. Co., Real Estate Trust Building, $26,756. Sewers and pumping equipment, South of Pattison avenue, West of Broad, Pennsylvania Engr. & Const. Co., Real Estate Trust Building, $59,537.40. Schedule D—Curbing and paving, Joseph Salvucci, 512 North Sixty-fifth street, Philadelphia, $148,549.45.

Supplies, Philadelphia Navy Yard. Owners, Bureau of Supplies and Accounts, Navy Department, Washington, D. C. Owners taking bids due February 23rd, 10 A. M., for delivering core compound and sheet steel to the Navy Yard, Philadelphia.

Miscellaneous Work, Philadelphia. Architects, Simon & Simon, 249 Soueh Juniper street, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall, Philadelphia. Owners taking bids due February 19th at noon. Draining, grading, paving, lighting, improvement of grounds and equipment of buildings, in area South of Shunk street, between Delaware and Schuylkill Rivers. Certified check 5 per cent. of bid. Plans and specifications from the office of the architects.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Owners taking bids due February 23rd at noon. Inquire Room 788. Certified check 5 per cent. of bid. No. 794, furnish and deliver pig lead. No. 797, furnish and instal electrical pumping equipment in Torresdale Pumping Station. No. 798, switchboard, wiring and electrical equipment, Torresdale Pumping Station.

Two-Family Residence and Stores. Southeast Corner Emlen and Sharpnack streets. Architect, Robert M. Reeve, 5539 North Third street, Philadelphia. Owner, Harry Rosen, care of architect. Brick, concrete, 3 stories and basement, 26x51 feet, slag roof, pine floors, hot water heat, electric light, tile, marble work, rolled steel sash, galvanized iron skylights, plumbing, metal ceilings, ornamental iron work, area grating. Architect taking bids due February 19th.

Residence and Garage, Roosevelt Boulevard and Hellerman street, Philadelphia. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, C. W. Haig, care of architect. Stone, 2½ stories, 37x32 feet, tile roof, hardwood floors, hot water heat, electric light, tile and marble work, garage, 1 story, 18x40 feet, cement work. Architect taking sub-bids due as soon as possible. (Note correction.)

Residences (50), Sixty-fourth and Chelwynde avenue, Philadelphia, $4,000 each. Architect, private plans. Owners, Paul & Krauss, 4807 North Hutchinson street, Philadelphia. Brick, 2 stories, (46) 16x28 feet, 12x12 feet, (4) 11x10 feet, 16x40 feet, slag roof, pine floors, hot water heat. Permit granted.

Residence (alts. and add.), 6223-25 Wayne avenue, Philadelphia, $5,000. **Store,** Washington lane, East of Wayne avenue, Philadelphia, $3,000. Architect, private plans. Owners, Chaitt Co., Inc., 6225 Wayne avenue, Philadelphia. Brick, 1 story, 6x35 feet, general alterations, store, 1 story, 30x42 feet. Permit granted.

Residence, 4737½ Maple avenue, Philadelphia, $5,000. Architect, private plans. Owner, James Woodward, 4735 Maple avenue, Philadelphia. Brick, 2 stories, 15 feet 6 inches x 41 feet 10 inches, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (100), Sixty-fifth and Guyer's avenue, Philadelphia, $362,000. Architect, private plans. Owners, Gillingham & Haynes, Sixty-seventh and Dicks avenue, Philadelphia. Brick, 2 stories, (92) 16x31 feet, (8) 18x36 feet, slag roof, pne floors, hot water heat, electric light. Permit granted.

Residences (4), East side Walker street, North of Rhawn street, $4,000 each. Architect, private plans. Owners, Holmesburg Concrete Co., Crispin street above Welsh road. Brick, 2 stories, 16 feet 9 inches x 42 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Warehouse, West side Baynton street, South of Armat street, Philadelphia, $3,500. Archi-

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tect, private plans. Owners, Spartan Oil Co., Widener Building, Philadelphia. Iron, 1 story, 24x70 feet. Permit granted.

Railroad Station (alts.), 4410 Frankford avenue, Philadelphia, $3,000. Owners, The Reading Company, Twelfth and Market streets, Philadelphia. General alterations. Permit granted.

Residences (22), Dittman and St. Vincent streets, Philadelphia, $77,500. Architect, private plans. Owner, Louis W. Ruben, 121 North Broad street, Philadelphia. Brick, 2 stories, (20) 15x27 feet, 12x9 feet, (1) 16x27 feet, 12x9 feet, (1) 16x36 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (add. and alts.), 1315-17 North Thirty-second street, Philadelphia, $6,000. Owner, A. Brown, 145 Fairmount avenue, Philadelphia. Brick, 3 stories add., 18x8 feet, 6x6 feet, general alterations. Permit granted.

Residences (2), (1) Tyson and Bingham streets, (1) Whittaker and Shelmire streets, Philadelphia, $5,000 each. Owner, Victor Rick, 7333 Oxford street, Philadelphia. (1) Frame, 2 stories, 30x41 feet, (1) brick, 2 stories, 28x38 feet. Permit granted.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Low bidders: Schedule A—Branch sewers. Fairhill street, Johnston to Bigler; W. H. Garson, 5033 Brown street, Philadelphia, $5,832.20. Franklin street, Nedro avenue to Champlost avenue; Batterio & Ponterrelli, Philadelphia, $6,956.70. Fourth street, Tabor road to Clarkson avenue; A. Di Sandro & Son, 3906 North Fifth sereet, Philadelphia, $1,940. Forty-fifth street, Sansom to Walnut street; H. H. Pizagno, 907 South Thirteenth street, Philadelphia, $2,766. Forty-eighth street, Chester avenue to Springfield; H. H. Pizagno, 907 South Thirteenth street, Philadelphia, $5,470. Fifty-eighth street, Gibson avenue to Elmwood avenue; A. Perna & Son, 752 South Tenth street, Philadelphia, $4,020. Glenmore avenue, Sixty-fifth to Sixty-sixth street; V. S. Campellone, 812 West Venango street, Philadelphia, $3,-839.50. Grange Avenue, Conlyn street; E. F. Bennis, 641 East Chelten avenue, Philadelphia, $10,988.70. Johnston street, Eighteenth to Nineteenth street; V. A. Campellone, 812 West Venango street, Philadelphia, $4,022.50. Lauriston street, Kingsley to Markle; A. Perna & Son, 752 South Tenth street, Philadelphia, $8,638. M street, Lycoming to Hunting Park avenue; H. H. Pizagno, 907 South Thirteenth street, Philadelphia, $6,190. Markland street, Hunting Park avenue to Lycoming; H. H. Pizagno, 907 South Thirteenth street, Philadelphia, $6,455. Marshall street, Johnston to Bigler street; McIntyre Const. Co., 6811 North Franklin street, $5,605.30. N street, Luzerne to Hunting Park avenue; Lycoming street, N to M; H. H. Pizagno, 907 South Thirteenth street, Philadelphia, $21,-980. Opal street, Church lane to Champlost street; E. F. Bennis, 641 East Chelten avenue, Philadelphia, $7,415.65. Ruth street, Venango to Atlantic street; V. S. Campellone, 812 West Venango street, Philadelphia, $3,362.40. Sheridan street, Johnston to Bigler; Clifton Const. Co., Clifton Heights, Pa., $5,794. Silverwood street, Fountain to Delmar street; H. H. Pizagno, 907 South Thirteenth street, Philadelphia, $12,323. Spencer street, Fairhill street to Fifth; Fairhill, Spencer to Godfrey; Batterio & Ponterelli, Philadelphia, $9,974.50. Sixty-third, Dicks avenue to Gibson avenue; A. Di Sandro & Son, 3906 North Fifth street, Philadelphia, $2,941.

Sesqui-Centennial Building, Broad and Pattison avenue, Philadelphia. Owners, Pennsylvania Sesqui-Centennial, care of H. T. Baxter, 926 Widener Building, Philadelphia. General construction, plumbing and electric work. Owners taking bids due March 4th at noon. Certified check $5,000. Deposit, $10. Plans may be obtained from owner after February 20th, 10 A. M.

Bridge, over Schuylkill River, Green Lane, Manayunk, Philadelphia. Architect, private plans. Owners, City of Philadelphia, Bureau of Engineering, 216 City Hall. Reinforced concrete, steel. Plans in progress. Owners will soon take bids.

Supplies, Philadelphia. Owners, Purchasing Agent E. F. Lafferty, 312 City Hall, Philadelphia. Owners taking bids due February 25th at noon, Room 329, electric supplies, asphalt sand, Portland cement, concrete and Portland cement, lumber, tile. Certified check 5 per cent. of bid.

Bridge on line of Thirty-second or Thirty-fourth street, across Schuylkill River. Owners, City of Philadelphia, Bureau of Engineering, 216 City Hall. Preliminary plans being drawn.

New Station Buildings and Alterations to Bridge, Tabor Branch, Tabor, Philadelphia. Architect, Samuel T. Wagner, Twelfth and Market streets, Philadelphia. Owners, Philadelphia & Reading Railroad, Twelfth and Market streets, Philadelphia. Brick, steel, 1 story, 40x18 feet, 41x47 feet, hot water heat, electric light, asbestos built-up roof, pine floors, concrete work, rolled steel sash, bond, ornamental iron work, membrane waterproofing, architectural terra cotta. Owners taking bids due February 25th.

Construction of Concrete Tunnel and Concrete Work, Excavation for Boiler House, Twenty-first and Oregon avenue, Philadelphia. Owners, War Department, Commanding Office, Philadelphia, Q. M. Intermediate Depot, Twenty-first and Oregon avenue, Philadelphia. Reinforced concrete. Owners taking bids due February 26th, 11 A. M. Certified check 10 per cent. of bid or guaranty by approved sureties.

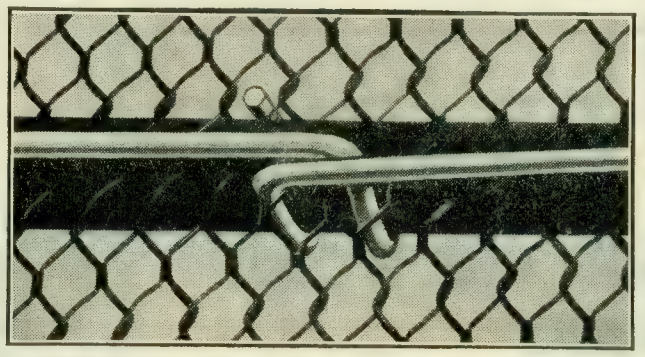
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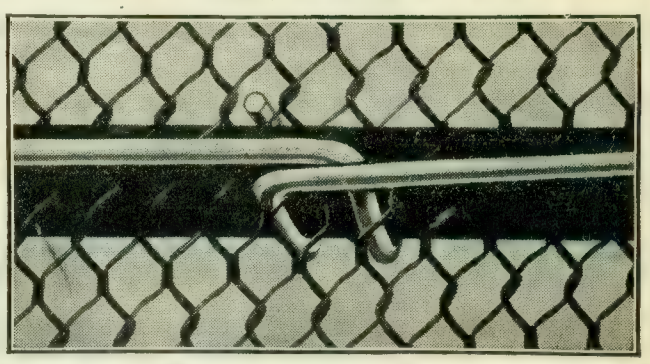
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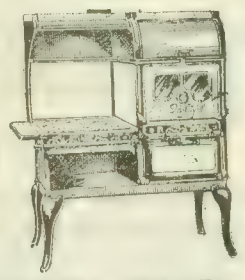




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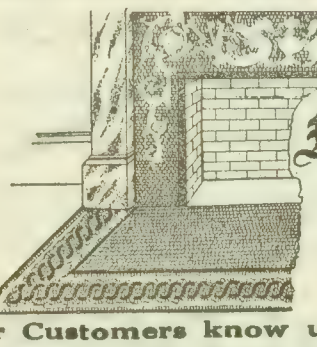
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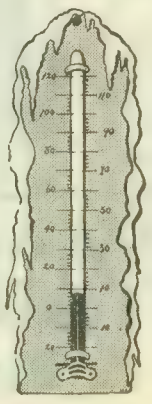
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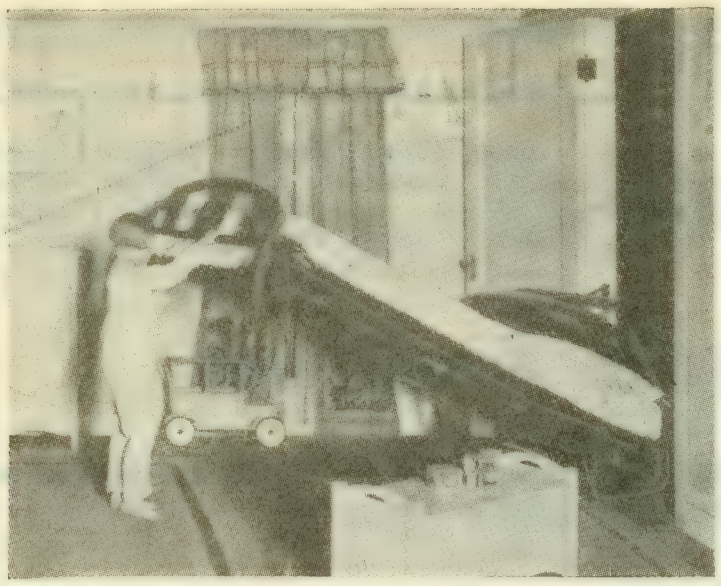
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Mill Building, Wissinoming, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Hellwig Silk Co., on premises. Additional story to present building. Plans about completed. Architect will be ready for bids in one week.

Apartment House, near Broad and Chelten avenue, Philadelphia. Architect, Arnold Mueller, 901 Walnut street, Philadelphia. Owner, Harry Levin, care of architect. Brick, steel, 4 stories, 40x80 feet. Preliminary plans in progress.

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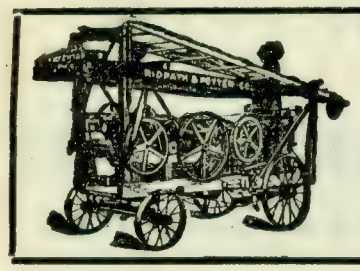
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Store Building, 1501 Germantown avenue, Philadelphia. Architect, Edwin L. Rothschild, Bankers' Trust Building, Philadelphia. Owners, Jacob Brothers, on premises. Architect taking bids due February 23rd.

Shop, 4013-15 Ludlow street, Philadelphia, $2,700. Architect, private plans. Owner, A. J. Wilson, 4504 Pine street, Philadelphia. Brick, 1 story, 19x40 feet, slag roof, pine floors, electric light. Permit granted.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Stores and Apartment Building, 1227 Bainbridge street, Philadelphia. Architect, Edwin L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Herman B. Feldman, 1231 Bainbridge street, Philadelphia. Brick, cut stone, steel, 3 stories and basemnt, 120x26 feet, slag roof, composition, oak and pine floors, gas radiation, sprinklers. Contract awarded Robbins Cont. Co., 1137 North Front street, Philadelphia.

Finishing Plant (alts. and add.), Allegheny avenue and Boudinot street. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Concordia Silk Mills, on premises. Brick, concrete, 1 story, 70x35 feet, slag roof, cement floors, plumbing, painting and glazing, hollow metal sash, ornamental iron work, waterproofing. Contract awarded J. L. Fawley Co., 1615 Spruce street, Philadelphia.

Garage (alts.), North side Parrish street, West of Fifteenth street, $4,000. Architect, private plans. Owner, Louis J. Kolb, School lane and Wissahickon avenue, Philadelphia. General alterations. Contract awarded to William Henderson & Son, 327 South Twentieth street, Philadelphia.

North American Building (alts. to seventeenth to twenty-first floors, included), Broad and Sansom. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Heyman Brothers, 215 South Broad street, Philadelphia. Tile and terrazzo work, electric light, hollow metal doors, ornamental iron work, glazing and painting, metal toilet partitions, plumbing, mail chutes, hardware, electric light, elevator (alts.). Contract awarded Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Stores (3), Apartments (6), Southeast Corner Thirteenth and Susquehanna avenue, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owner, I. Weiner, 2163 North Thirteenth street, Philadelphia. Brick, steel, 3 stories, 16 feet 6 inches x 90 feet, slag roof, hardwood and pine floors, metal ceilings, ornamental iron work, metal bulks, bond, store fixtures, hollow metal sash and skylights, tile and marble work, metal lath, electric light, hot water heat. Contract awarded M. Brenner, 2034 South Fifth street, Philadelphia.

Building (alts.), 19-23 South Fortieth street, Philadelphia. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, John Smith, Northeast Corner Fortieth and Ludlow streets, Philadelphia. Brick, cinder block plumbing, heating reserved), pine and oak floors, hollow tile, carpentry and mill work, plastering, metal ceilings, painting and glazing, ornamental iron work, tile and marble. Contract awarded Warren E. Biscoe, 3946 Baring street, Philadelphia.

Restaurant Building, 29-33 North Ninth street, Philadelphia. Architect, private plans. Owners, Horn & Hardart Baking Co., 214 South Tenth street, Philadelphia. General alterations. Plans not yet completed. Contract awarded Harry R. Rust, Inc., 41 North Hutchinson street, Philadelphia.

Schools (2), Sixty-sixth and Elmwood avenue and Twenty-sixth and Cumberland streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contracts awarded: Sixty-sixth and Elmwood avenue, Philadelphia: Cramp & Co., Denckla Building, Philadelphia, $1,028,307; plumbing, S. Faith & Son, 2427 Pennsylvania avenue, Philadelphia, $46,864; electric, E. F. Goldhahn, 17 South Forty-fourth street, Philadelphia, $63,552; heating, S. Faith & Son, 2427 Pennsylvania avenue, Philadelphia, $93,993; ventilating, Thompson Brothers, 520 Buttonwood street, Philadelphia, $8,371. School, Twenty-sixth and Cumberland streets, Philadelphia: Cramp & Co., Denckla Building, Philadelphia, $1,011,956; plumbing, L. W. Sommer & Son, 2436 Brown street, Philadelphia, $45,934; electric, E. F. Goldhahn, 17 South Forty-fourth street, Philadelphia, $61,738; heating, S. Faith & Son, 2427 Pennsylvania avenue, Philadelphia, $93,992; ventilating, Thompson Brothers, 520 Buttonwood street, Philadelphia, $8,371. Specification No. 9, electric, E. F. Goldhahn, 17 South Forty-fourth street, Philadelphia, $484.

Residence add. and alts.), Northwest Corner Graver's lane and Prospect street. Architects, Willing, Sims & Talbutt, Eighteenth and Sansom streets, Philadelphia. Owners, Philadelphia Trust Co., 415 Chestnut street, Philadelphia. Stone, 1 story add., 8x12 feet, general alterations. Contract awarded to Schroeder & Wood, 125 South Fifth street, Philadelphia.

Residence, Southwest Corner Hermit lane and Houghton street, Philadelphia, $15,500. Architect, A. C. Borzner, 717 Walnut street,

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Philadelphia. Owner, Leonard Keon, care of architect. Stone and block, 3 stories, 29 feet 10 inches x 40 feet 10 inches, 14x9½ feet, slate roof, hardwood and pine floors, electric light. Contract awarded to D. R. Evans, Penfield, Delaware County, Pa.

Store (alts.), 46 and 48 North Seventh street, Philadelphia, $9,000. Owners, Lit Brothers, Eighth and Market streets, Philadelphia. General alterations. Contract awarded to William Linker Co., 735 Cherry street, Philadelphia.

Garage, 1726 South Broad street, Philadelphia, $2,150. Architect, private plans. Owners, Order of Sons of Italy, on premises. Brick, 1 story, 28x18 feet, slag roof, cement floors, electric work. Contract awarded to Frank R. Bilotta, Seventh and Christian streets, Philadelphia.

Department Store (alts.), Northeast Corner Eighth and Market streets, $15,000. Architect, private plans. Owners, Lit Brothers, Eighth and Market streets, Philadelphia. General alterations. Contract awarded to William Linker Co., 735 Cherry street, Philadelphia.

Synagogue, 29 West Rittenhouse street, Germantown, Philadelphia, $36,000. Owners, Congregation Chavas Chesed, 5126 Germantown avenue, Philadelphia. Brick, 2 stories, 26x102 feet, slag roof, electric light, steam heat. Contract awarded to Max Cotler, 1220 North Forty-second street, Philadelphia.

Garage, 1727-29-31 Carpenter street, Philadelphia, $11,000. Architect, private plans. Owner, D. Shaffron, Northwest Corner Nineteenth and Catharine streets, Philadelphia. Brick, 1 story, 48x55 feet, 65x25 feet, slag roof, cement floors. Contract awarded to Joseph Sweet, 2549 North Spangler street, Philadelphia.

Storage Building alts.), 725 North Fourth street, Philadelphia, $7,900. Architect, private plans. Owner, D. Friedlander, 334 North Third street, Philadelphia. General alterations. Contract awarded to F. & S. Const. Co., 554 North Sixteenth street, Philadelphia.

Store and Residence (add. and alts.), 1232 South street, Philadelphia, $5,000. Architect, private plans. Owner, David Kavitsky, on premises. Brick, 2 stories add., 16x28 feet 6 inches, general alterations. Contract awarded to Harry Goldberg, 2419 South Fairhill street.

Store and Storage Building (alts.), 3419 Haverford avenue, $2,500. Architect, private plans. Owner, William J. Kelleher, 3908 Brown street, Philadelphia. General alterations. Contract awarded to J. W. Kelleher, 297 Converse road, Philadelphia.

Residence add. and alts.), 2141 Lombard street, Philadelphia, $2,500. Architect, private plans. Owner, Charles Blackwell, 2308 Lombard street, Philadelphia. Brick, 3 stories add., 16x9 feet, general alterations. Contract awarded to Craftsman Building Co., 2114 Lombard street, Philadelphia.

Pennsylvania Construction News

School, Aldan, Delaware County, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, School Board of the Borough of Aldan, Delaware County, Pa. Brick, steel, 1 story, 143x116 feet (plumbing, heating, electric separate bids), slag roof, maple floors, ornamental iron work. Architect taking bids due February 24th.

Residence and Garage, Church road, Ithan, Pa. Architect, private plans. Owners, William Howard Fritz, Jr., City Center Building, Philadelphia. Stone, stucco, 2½ stories, 27x65 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, metal casements. Owner will build and will be ready for bids in one month.

New Docks and Piers, Chester, Pa. Architect, Albert Kahn, Detroit, Mich. Owners, Ford Motor Co., Detroit, Mich. Wood piers, reinforced concrete work, dredging wood sheeting. Bids due as soon as possible.

Office Building (alts.), Front and South, Media, Pa. Architect, E. L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Phil Green, 4018 Girard avenue, Philadelphia. Cast stone, marble front, 4 stories, 50x70 feet, rubber tile, pine and composition floors, elevator, steam heat, oil burning equipment, electric light. Owner will build and is taking sub-bids.

Residence, Drexel Hill, Pa. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, M. A. Dulling, Wyoming and Belfield avenues, Philadelphia. Brick, 2½ stories, hot water heat, electric light, tile and marble work, hardwood floors, slate roof, oil burning. Plans about completed. Will be ready for bids in two weeks.

Theatre, Northeast Corner Lansdowne and Baltimore avenues, Lansdowne, Pa. Owners, Harrison Brothers, Bryn Mawr, Pa. Lessees, The Stanley Co., 1916 Race street, Philadelphia. Architect not yet selected. Too early for details.

Residence Development, Hansel road, Wynnewood, Pa. Owner, Henry J. McLean, 521 South Fifty-second street, Philadelphia. Stone ,hollow tile, stucco, 2½ stories. Will develop in spring. Work contemplated. Too early for details.

Bank Building, West Main street, Norristown, Pa. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Montgomery National Bank, W. H. Dingluff, president, Norristown. General remodeling and enlarging. Preliminary plans in progress.

Lodge Building, Second avenue and Fayette street, Conshohocken, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, Knights of Columbus Home Association, Conshohocken Council, care of C. A. Desimone, chairman of Building Committee, Conshohocken, Pa. Brick, steel, 3 stories. Architect selected. Plans in progress.

Residence and Garage, Harrison road, Ithan, Pa. Architect, not yet selected. Owner, Mrs. S. A. Souder, Jr., Wayne, Pa. Work contemplated.

Apartment, Reading, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, name withheld. Brick, 3 stories, 21x26 feet, 17x38 feet, slate roof, hardwood floors, steam heat, electric light, tile work, iron stairs. Plans in progress.

Stores (4), 8-10 Cameron street, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Eckenrode & Associates, care of architect. Brick, 1 story, 14x45 feet each, slag roof, pine floors, steam heat, electric light, plate glass. Plans in progress.

Residence, Green and Division streets, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, Max Langman, 1423 Verbeke street, Harrisburg, Pa. Stone, stucco, 2½ stories, slate roof, hardwood floors, electric light, tile work. Plans in progress.

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Residence, Colonial Park, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, A. A. Hickman, 1606 Thompson street, Harrisburg, Pa. Brick, 2½ stories, 39x32 feet, slate roof, hardwood floors, tile work, electric light. Plans in progress.

Residence, Mechanicsburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, David Biddle, Mechanicsburg, Pa. Frame, stucco, 2½ stories, tile roof, hardwood floors, tile work, electric light. Plans in progress.

Apartments (12) (alts. and add.), Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, name withheld. Brick, stone, composition roof, hardwood floors, heating extension, electric likht, tile work. Plans in progress.

Church and Sunday School (add. and alts.), Camp Hill, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Trinity Lutheran Church, Carl K. Deen, chairman, Building Committee, Camp Hill, Pa. Brick, stone trim, 1 story and basement, 48x80 feet, composition roof, hardwood floors, heating extension, electric light. Plans in progress.

Residence, Halifax, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, W. T. Willitts, Halifax, Pa. Brick, 2½ stories, 37x50 feet, slate roof, hardwood floors, electric light. Plans in progress.

Store, Hyde Park, Reading, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owner, H. L. Adams, Hyde Park, Reading, Pa. Brick, 1 story, 40x20 feet, composition roof, pine floors, steam heat, electric light. Owner will take sub-bids.

Residence, Bellevue Park, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, J. D. Sisler, 2012 North street, Harrisburg, Pa. Stone, brick, cinder block, 2½ stories, 25x41 feet, shingle roof, hardwood floors, electric light, metal lath, tile work, cast stone, steel sash. Owner will take bids.

Residence and Garage, Rosedale Heights, near Pottstown, Pa. Architect, M. B. Dechant, 632 Washington street, Reading, Pa. Owner, Charles J. Custer, 206 High street, Pottstown, Pa. Stone, 1½ stories, 40x40 feet, slate roof, oak floors, hot water oil burner heat, electric light, tile work. Plans in progress. Architect will be ready for bids in about three weeks.

Semi-Detached Homes, Collegeville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Harry Mathieu, Trappe, Pa. Frame and stucco, 2 stories, 22x32 feet, asbestos and slag roof, oak and yellow pine floors, wood and steel sash, tile work (heating, plumbing and lighting reserved). Plans in progress. Owner will take bids.

Residences (12), Norristown, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John L. Steele, Jr., Norristown, Pa. Brick, stone, 2 stories, 15x37 feet, slag and tin roof, pine floors, cement work, steam heat, electric light. Owner ready for sub-bids.

Operation of Residences, Norristown, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John L. Steele, Jr., Norristown, Pa. Brick, stone, 2 stories, 16x40 feet, slag and tin roof, hardwood floors, cement work, steam heat, electric light, metal lath, tile and marble work, garage in basement. Owner ready for sub-bids.

Academy Building, Moylan, Delaware County, Pa. Architect, Emil G. Perot, 1211 Arch street, Philadelphia. Owners, Sisters of Notre Dame, Moylan, Pa. Stone, cut stone, brick, granite, limestone, 3 stories and basement, 77x188 feet, 92x44 feet, slag, gypsum, steel reinforced roof, cement, composition and maple floors, hollow tile, plumbing, roof ventilators, slate blackboards, metal weather strip, shoring, waterproofing (membrane), dampproofing, shoring, architectural terra cotta, ornamental iron work, iron stairs, bond, kalamein doors, hollow metal sash, tile, marble and terrazzo work, steam heat, electric light, hollow metal partitions, dumb waiters, steel casements, ornamental plaster. Architect taking bids due February 23rd.

Municipal Building, South side Lincoln Highway, Downington, Pa. Architect, John H. Mowere, Phoenxville, Pa. Owners, Citizens' Holding Co., Allen C. Kern, president, Downington, Pa. Reinforced concrete, stone, cut stone, brick, steel, 3 stories and basement, 50x73 feet (plumbing, heating, electric separate), asbestos shingle roof, electric light, plumbing, painting and glazing, metal ceilings, waterproofing, ornamental iron work. Certified check $500. Architect taking bids due as soon as possible.

Printing Plant, Wilson Borough, Northampton County, Pa. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Mack Printing Co., Easton, Pa. Brick, cut stone, cast stone, reinforced concrete, steel, 1 story, 302x128 feet, slag roof, cement floors, safety treads, roof ventilators, waterproofing, rolling steel shutters, metal partitions, ornamental iron work, iron stairs, floor hardener, bond, tin-clad fire door, rolled steel sash, tile and marble work, metal lath. Architect taking bids February 23rd, 11 A. M.

Bank, Scranton, Pa. Architect, David H. Morgan, Scranton, Pa. Owners, North Scranton Bank, Scranton, Pa. Brick, limestone, steel, 1 story and mezzanine, 50x100 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile work, rolled steel sash, ornamental iron work. Architect taking bids due February 23rd.

Residences (2) and Garage, Hilcrest and Irvington road, Drexel Park, Pa. Architect, Carl A. Ziegler, 1012 Walnut street, Philadelphia. Owner, E. J. Hugo, Drexel Park, Pa. Stone, 2½ stories and basement, 37x28 feet, 43x29 feet, wing 11x10 feet, garage, 23x20 feet, hot water heat, electric light, tile work, ornamental iron work, shingle roof, oak and pine floors. Architect taking bids due February 24th.

Consolidated School, Oberlin, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Swatara Township School Board, William Horner, president, Oberlin. Brick, steel, reinforced concrete, 2 stories, composition and slag roof, cement floors, roof ventilators, cut stone (heating, plumbing and electric separate), metal lath, steel sash. Architect taking bids due February 26th.

Residence, 66 Chestnut street, Lewistown, Pa. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owner, J. Smith Green. Lewistown, Pa. Hollow tile, stucco, 2½ stories, 47x33 feet, Vermont green slate or Bangor slate roof, hardwood, pine and cork floors, linoleum, Keen cement in baths (4), steel casement sash, hot water heat, electric light. Owner ready for general bids.

School (add.), South West End avenue, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Lancaster Township School Board, H. L. Breiter, Lancaster, Pa. Fireproof, steel, brick, 2 stories and basement, 26x80 feet, slag roof, pine floors, hollow tile, bond, metal lath (heating, plumbing and electric separate). Architect taking bids due March 4th.

Residence, Drexel Hill Park, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. A. Branegen, care of architect. Stone, 3 stories, 35x42 feet, wing, 2 stories, 18x16 feet (hot water heat, oil burning, refrigeration separate bids), electric light, slate roof, hardwood and cement floors, tile and marble work, 3 baths. Architect taking bids due February 24th at noon.

High School, Hazleton, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Hazleton School Board, D. R. Evans, secretary, Hazleton, Pa. Owners ready for bids.

School, Parkerford, Pa. Architect, John H. Mowere, 201 Bridge street, Phoenixville, Pa. Owners, School Board of Coventry Township, J. A. Savage, Pottstown, Pa. Lowest bidder: W. L. Wiand, Pottstown, Pa., $34,100.

Bridge, Rising Sun avenue, over Richmond Branch of Reading. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Low bidders: George Dobbins, 1020 South Forty-seventh street, Philadelphia, $90,319.50. Kauffman Const. Co., Pennsylvania Building, Philadelphia, $98,221.

Intercepting Sewer System and Sewage Disposal Plant, Chester, Pa. Engineer, R. C. Wheeler, Chester, Pa. Owners, City of Ches-

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ter, Pa., George J. Hunter, Department of Streets and Public Improvements, Chester, Pa. Main pumping station on Chester River, grit chamber forced main sewer. West End intercepting sewer, Lloyd street and Central avenue or other streets better fitted for system. Sewer in Central avenue or other better fitted street. Delaware River intercepting swer, Norris to Pennell street. Chester River intercepting sewer, West side Second to Fifth street. Preliminary plans in progress. Cost, $2,500,000. Owners will take bids on first unit in June, 1926, work to start July, 1926. Time of completion, 6 years.

Painting of Pawling's Bridge over Schuylkill River, at Perkiomen Junction Station, between Phoenixville and Valley Forge, Pa. Engineer, H. K. Ellis, West Chester, Pa. Owners, Montgomery and Chester Counties, West Chester, Pa. Plate bridge, 3-span, 110 feet. Owners ready for bids care of H. K. Ellis, West Chester, Pa.

Pennsylvania Contracts Awarded

Residence (alts. and add.), Wynnewood, Pa. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, Walter A. Lippincott, on premises. Metal lath, tile work, electric light, stone work, cement and iron work, carpentry and mill work, oak floors, slag roof, plastering, painting. Contract awarded Joseph Mandes & Son, Ardmore, Pa.

Residence, Noble Vista, Pa. Architect, Edwin Yeo, 225 South Sydenham street, Philadelphia. Owner, Samuel Y. Boggs, Oak Lane, Philadelphia. Concrete block and stucco, 2½ stories, 26x40 feet (heating and electric reserved), shingle roof, hardwood floors. Contract awarded Stahl & Walton, Willow Grove, Pa.

Residence and Garage, Merion, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, S. F. Scattergood, 5048 Chestnut street, Philadelphia. Stone, brick, cut stone, 2½ stories, 45x77 feet, variegated slate roof, oak and pine floors, plumbing, hot water heat, electric light, tile and marble work, limestone. Contract awarded Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Convent (add. and alts.), Ninth and Walnut streets, Reading, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Paul's Roman Catholic Church, Rev. Theodore Hammeke, 151 North Ninth street, Reading, Pa. Brick, 4 stories, 24x16 feet, 15x9 feet, composition and asbestos shingle roof, pine floors, steam heat, electric light, tile work, iron stairs. Contract awarded to D. Maurer & Sons, Glenside, Reading, Pa.

Residence, Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owner, Dr. C. R. Farmer, 573 West Lemon street, Lancaster, Pa. Brick, 2½ stories, 35x50 feet, slate roof, hardwood floors, hot water heat, electric light. Contract awarded to Herman Wohlsen, Woolworth Building, Lancaster.

Store (alts. and add.), Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, M. T. Garvin Co., 31 East King street, Lancaster, Pa. Brick, steel, 7 stories, 19x245 feet, 60x40 feet, built-up roof, maple floors, hollow tile, (3) elevators, dampproofing, terra cotta, iron stairs, ornamental iron, fire doors, steel sash, metal lath, steam heat, electric light. Contract awarded to Herman Wohlsen, Woolworth Building, Lancaster.

Residence, Riverside, Harrisburg, Pa., $60,000. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, Redsecker Brinser, 2138 North Second street, Harrisburg, Pa. Stone, stucco, 2½ stories, 60x30 feet, wood shingle roof, hardwood floors. Contract awarded to J. S. Foose, Harrisburg, Pa.

New Jersey Construction News

School, Colwick, Merchantville, N. J. Architects, Edwards & Green, Camden, N. J. Owners, Board of Education, Merchantville, N. J. Brick, steel, cut stone, cast stone, 2 stories and basement, 2 wings, 75x26 feet, 115x40 feet (plumbing, heating, electric separate bids), slate roof, maple and cement floors, metal lath, dampproofing, steel partitions. Owners taking bids due February 23rd.

Residence, Brigantine Beach, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, H. G. Harris, Guarantee Trust Building, Atlantic City. Brick, hollow tile, stucco, 2 stories, 58x69 feet, tile roof, cut stone, hardwood floors, tile and marble, electric light, hot water heat. Architect taking bids.

Residences and Garages (2), 1116-18 North Nineteenth street, Camden, N. J., $8,000. Architect, private plans. Owner, John P. Kostek, 1105 North Seventeenth street, Camden, N. J. Frame, 2 stories, 16x38 feet, garages, 12x18 feet, slag roof, hot water heat, electric light. Permit granted.

Resdence, Margate City, N. J. Architect, George I. Lovatt, 223 South Sydenham street, Philadelphia. Owner, Luigi Rienzi, Seventeenth and Walnut streets, Philadelphia. Brick, 2½ stories, 30x60 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due February 19th.

Office, Garage and Storage Building, Long Branch, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, American Poster Advertising Co., Trenton, N. J. Fireproof, 1 story, 50x105 feet, slag roof, wood and concrete floors, steam heat, electre light, metal lath, fire doors. Owners ready for bids.

Apartment House (alts. and add.), Dalton Block, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owners, Center Realty Co., S. Sharlin, 156 Mercer street, Trenton. Brick, 2 stories, 85x42 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble. Architect taking sub-bids.

Attendants' Building, Psychopathic Building, Doctors' Residence, Nurses' Residence and Convalescent Building, Trenton, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Lowest bidders: William C. Ehret, Trenton Trust Building, Trenton, N. J., $510,000; C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., $579,750; electric, Jackson Electric Co., Trenton, N. J., $15,990; heating, John Black & Son, Trenton, N. J., $62,280; plumbing, J. T. Evans, Wilkes-Barre, Pa., $58,409.

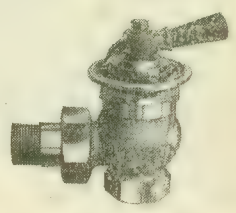
New Jersey Contracts Awarded

Residence and Garage, Ventnor, N. J. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owner, Mrs. G. W. Stickney, care of architect. Brick, 2½ stories, 30x43 feet, slate and tile roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Edward Collins, Ventnor Heights, N. J.

Store Front, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, H. Harold, care of architect. Steel work, plate glass, copper and bronze work, tile and marble. Contract awarded to Weissman & Co., 316 Avenue A, New York.

Stores (3) (add.), 1178-80-82 Haddon avenue, Camden, N. J. Architect, A. B. Gill, 308 Market street, Camden, N. J. Owner, T. C. Tiedeken, 429 Van Hook street, Camden, N. J. Brick add., 1 story, 10 feet 9 inches x 14 feet, slag roof, iron cellar doors, lowering floors, new store fronts. Contract awarded to Victor Bezahler, 1027 Atlantic avenue, Camden, N. J.

HEATING SPECIALTIES
Edwin Elliot & Co.
560 North 16th St.
PHILADELPHIA



ACORN TILE COMPANY
Tile Work
INTERIOR AND EXTERIOR
CLEMENTON, N. J.
Mosaic Ceramic and Quarry Tile Floors
Bell Phone—Laurel Springs 112 R 2

MARBLE TILE
MOSAIC and CERAMICS
Camden Tile Co.
1484 Bradley Avenue
CAMDEN, N. J.
BELL PHONE, CAMDEN 3827 W

GENERAL INSURANCE | SMITH-AUSTERMUHL CO. | SURETY BONDS
5th and Market Streets, Camden, N. J.
BELL PHONE, CAMDEN 3210 KEYSTONE, CAMDEN 3147

Miscellaneous Construction News

Armory, Laurel, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owners, State Armory Commission, E. M. Hoopes, DuPont Building, Wilmington, Del. Brick, 3 stories. Preliminary plans in progress.

Warehouse, Richmond, Va. Architect, private plans. Owners, P. Lorillard Co., E. E. Ramsay, 2320 East Cary street, Richmond. Reinforced concrete, brick, 1 story, 140x101 feet, built-up roof, cement floors, rolled steel sash, ornamental iron work. Owners taking bids.

Residences (30), Fourteenth and Thirteenth and Scott streets, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Wesley E. Cartwright, Holly Oak, Del. Brick, stucco, 2½ stories, (11) 18x40 feet, (19) 15x40 feet, composition shingle roof, pine floors, electric light. Owner will build.

Miscellaneous Contracts Awarded

Storage Building (add.), Sixteenth and King streets, Wilmington, Del. Architect, private plans. Owners, Security Fireproof Storage Co., W. Austin, Sixteenth and Market streets, Wilmington, Del. Brick, fireproof, 5 stories, 83x19 feet, Barrett roof, concrete floors, electric light, steel sash, kalamein and metal doors. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

M. L. Conneen & Son, Contractors & Builders, formerly of 1813 S. 54th St., Philadelphia, have moved their offices to 4023-25 Market St., Philadelphia. Kindly send all catalogues and literature to this address.

(Continued from page 100)

practical to dispose of cooking odors by preparing odorous foods in the closed thermostatically-controlled oven.

Many of the newer kitchens of the most popular type provide a transom installed just above the windows over the kitchen sink, where it serves the double purpose of affording additional direct daylight and permitting ventilation of the inside area without opening windows and doors, with their attendant draughts.

In planning the truly efficient kitchen, the range should be adjacent to, or directly opposite the kitchen cabinets. An ideal arrangement where two cabinets are provided, is to place the range between them and opposite the sink. The minimum space to be allowed for a gas range is 36x52 inches.

It is not the purpose of the writer of this article to say that this trade-marked brand or that trademarked brand of range is better than another. An infinite variety of satisfactory gas appliances of all kinds for all purposes is now available. But it can not be too strongly insisted that the best type of gas range is that which is provided with lids and a covered top. The greater economy, more uniform heat, use of a single burner to supply heat to the entire top surface of the stove, convince us that this is the best of the many excellent ranges now offered.

There has been rapid development in design and construction of gas appliances generally so there is a model now available for every conceivable kitchen duty. Many of them are provided with garbage incinerators: All are designed to occupy the most compact space. The better ones are beautifully enameled and designed to make the kitchen a spot of brightness and cheerfulness, instead of a place of drudgery.

The advantages of the modern enameled range with its covered, uniformly heated top, its incinerator for the quick and easy disposal of garbage, its 32-inch high oven, its ease of regulation, its automatic thermostat control, are too numerous to be ignored in any consideration of the modern kitchen—the most-used room in the house.

It will be the greatest advantage to all concerned if the client will determine not only the kind of fuel to be used but the type and size of the range to be installed before the plans are drawn. The real reason many minsconceptions regarding the use of gas and a failure to appreciate its healthfulness have been permitted to grow up in some quarters can almost always be traced to a failure on the part of the designer to provide adequate vents and flues.

The flue is all-imoprtant. The minimum diameter for any gas range flue should never be less than four inches, six is better and the top of the flue above the roof should never be lower than any part of the roof. Where patented chimneys, installed in short length, are used, it should be insisted that the joints be closed tightly. Where the rectangular shapes of this type of flue are used the cross sectiona area should be slightly greater than the ardea of the circular ones given, to assure adequate capacity for carrying off exhaust gases.

Where there is an instantaneous, or storage, water heater, additional flue space invariably should be provided but, of that more in the next article of this series, when water heaters will be discussed.—*The Pacific Coast Architect.*

COMPETITION

When contractors, either in small or large groups, get together, the question of cut-throat competition is inevitably bound to come up for discussion. Ordinarily, those in the construction industry are prone to believe that this pernicious practice is confined solely to the building business. This, however, is not the case if we are to believe Judge E. H. Gary of the U. S. Steel Corp., who recently stated that the reason capital invested in the steel industry did not return a fair and reasonable profit was due to the fact that manufacturers, in their endeavor to secure more than their share of business, have carried competition to the point of accepting unreasonably low prices for their commodities.

In urging that this practice be discontinued Judge Gary said, "Our government, and our customers, would have more respect for us if we always insisted upon fair and reasonable prices, never less, never more. Business conducted on sound, logical, moral and legal principles will receive the approval of right-minded people of all classes."

What applies to the steel industry applies in an even greater degree to the construction industry. During the past few years we have been witnessing an unprecedented period of activity in the building industry. Every contractor, from the small housebuilder to the largest of the national general contracting firms, has been busy. There has been plenty of work for every one, yet the utter disregard for legitimate profits in many instances would indicate just the reverse.

Every contractor, large or small, should adopt a hard and fast rule to the effect that he is entitled to a reasonable profit on every operation. The rule once made should be adhered to in every instance. There is no glory in work done at a loss and there is certainly no financial gain.

—The Contractor.

You owe it to yourself to keep in touch with what is going on in the trade, and you can do this only by becoming a subscriber to and regular reader of your trade paper. If you are not a regular reader of the Builder's Guide you should be. The cost is not excessive. A five-spot insures it fifty-two times in the course of a year.

AMERICAN FARM HOMES TO BE DISSECTED FOR IMPROVEMENT STUDY

How to Bring Urban Conveniences to Rural Home to be Subject of Conference

When labor saving devices were first designed the needs of the rural home were not considered. Sanitation has nearly always considered the city first. Heat-

ing, plumbing, lighting and housekeeping facilities have heretofore been designed with the city user pictured as the main sales prospect. So also the work of most of our architects has been largely confined to the design of homes for the man in town.

This concentration upon the urban dweller has brought about a neglect of the farm home. How to overcome this resulting backwardness and bring to the rural home the conveniences of the average city home owner will be the subject of a meeting of the Better Farms Homes Conference to be held in the Hotel Sherman, Chicago, February 18 and 19, 1926.

The object of this conference will be a general dissection of rural home conditions and discussion of ways and means of bringing more architects into the rural building field, thus insuring more comfortable, better planned homes. Labor saving devices for lessening the work of the woman on the farm will be studied and changes necessary to adapt them to the farm recommended.

This conference is the outgrowth of years of effort on the part of the Division of Farm Structures of the American Society of Agricultural Engineers of which F. A. Wirt of Racine, Wis., is president and Professor D. G. Carter of the University of Arkansas, chairman of the Division of Farm Structures.

Architects to Co-operate

Wm. Draper Brinckloe, of Easton, Md., one of America's most prominent architects and himself a farmer will attend the conference and will present the results of his years of study in planning better farm homes.

Another subject which will be discussed at the meeting will be: "What the farm woman wants her rural home to be." The point of view of the woman on the farm will be presented by a prominent farm woman.

It is stated that more than 60 organizations are behind this movement which is heralded as the greatest forward advance in farm living conditions yet made. The Architects' Small House Service Bureau, the Sears-Roebuck Agricultural Foundation, the U. S. Department of Agriculture, American Federation of Woman's Clubs, and the American Public Health Association are only a few of the many associations which will take part in the conference.

For the benefit of the hundreds of thousands of interested rural folk who will be unable to attend the conference, the banquet program and many of the discussions occuring in the meetings will be broadcast over the radio. It is stated that the conference hopes to make the meeting an annual gathering to promote the general betterment of conditions on America's farms.

THE ARCHITECTS' INFLUENCE FOR BETTER PLASTERING

Under the guidance of the architect and the hand of the astisan more true architecture can be produced with plaster than any other material chosen as a medium of expression. Although it is one of the ancient materials, it is only during late years that the American architect has realized its many uses. Even so, there is very much room for improvement in plastering.

In sunny lands, as Florida and California, the art of plastering is more highly developed than in the North and East. Those parts of the country have houses of Spanish or Italian architecture, largely of stucco or exterior plastering. In interior plastering the use of colored and textured plaster is also more prevalent in the extreme South and West. However, spurred on by the Better Plastering Campaign, the North and East are appreciaing colored and textured plaster more.

The architect, to popularize textured plaster, must provide a good plaster foundation and must make allowances in the cost for good artisans and materials for that purpose. The plastering contract is too often considered on price alone and is let with the general contract to the lowest bidder, when it is well known that no contract depends so much upon the integrity of the sub-contractor and his willingness to put more hours of labor and more materials into his work.

Why do we not, therefore, face the question fairly? Plastering is not the operation on which to save money. It represents about ten per cent. of the total cost. If ten per cent. saving is made on plastering only one per cent is deducted from the total cost of the structure. Yet in that small item lies eighty per cent. of the appearance of the interior and all the chance for permanence of the plastered wall and ceiling. We can approve discoloration, cracks and exposed background in the exterior, when it is truthfully done to represent age, but even the most appreciative American housewife would not tolerate Michael Angelo's frescoes in the Sistine Chapel in their present condition. For the American housewife the wood may be split and antiqued, but the plaster must be unstained and uncracked.

It is for the American architect to so guide the client that sufficient money is allowed in the contract for careful, intelligent workmanship and permanent materials.

JURISDICTIONAL DISPUTES

Address of James J. Davis, secretary of labor, before the National Board for Jurisdictional Awards in the building trades, at the offices of the American Federation of Labor, in an open meeting attended by representatives of the building industry, architects, contractors, and officials of building trades and labor organizations.

I appreciate your courtesy in inviting me to this important meeting of representatives of the building industry of the country. On the matter of jurisdictional disputes I have strong convictions and shall open my mind freely. As you know, I am a plain blunt puddler of the mills, and I am going to talk to you frankly this morning on the effect these disputes have on building program of the entire country. In some instances it is more than a jurisdictional dispute—it's civil war between contending organizations.

I am interested in the National Board of Jurisdictional Awards. I am interested in it for a number of good reasons. And I am warmly interested.

As I see it and from information I gather, it is a representative organization. It represents every party and all parties to a jurisdictional dispute. If all parties are not in, there is plenty of room for them to get in. I am interested in this Board because it was suggested by labor and its beginings were started by John B. Lennon, a commissioner of conciliation who was directed to do so by the then Secretary of Labor. That was in 1918. This Board has settled hundreds of these jurisdictional disputes since then, and has saved millions and millions of dollars for the American people. The whole country is interested in this Board. The need of this Board is plain to all. The whole country looks to it to save the building industry, one of the biggest industries we have, from being shot to pieces by these jurisdictional disputes. Why shouldn't we have peace in this industry, when it isn't a question of whether union labor shall have the job, but which union shall have the job?

Reading the reports of my predecessor in office, I learn that in forming this Board, Commissioner Lennon got the enthusiastic approval of architects, builders, and men of the building trades in the American Federation of Labor. The thing was a success from the start. Conferences were held in New York, Chicago, St. Louis, and other large cities of this country. The idea was to get some standardization of craft work, and progress was immediate. This Board took formal shape in 1919. As I say, in six years it has saved the country untold

millions in the disputes it has settled. That is progress. But these disputes go right on. This Board has plenty of work yet to do. Plenty of progress remains to be made.

Some building trades have accepted the awards of this Board. Others have not come along. That means that every encouragement must be given to extending the activities of this Board of Awards. All parties should abide by its decisions. This is no "star chamber" outfit. All parties are represented here. And parties have a chance here to get up and say their say. And when an award has been handed down here, all parties should accept that award and carry it out.

I don't know of anything more disheartening to a workman than to set out in the morning not knowing whether or not he is going to get a day's pay, because one of these jurisdictional disputes may be on; I don't know of anything so disheartening to the owner of a building, the man who is paying for it, or to the contractor who employs the men to build it. All parties connected with the enterprise of raising a new building can side-step the responsibility for these disputes, but it is usually the workman who in the end gets the blame for stoppage of work and organized labor suffers from it.

The contractor, the subcontractor, the architect, the owner, the financial organizations paying the bills, are all innocent losers in a situation not of their making. I know many men who are anxious to build, and afraid to build, because of these jurisdictional disputes. They know full well they have only money enough to complete the building, and can't afford to pay interest charges caused by delay when two or more building trades are at loggerheads over which of them shall perform some item of work. It also affects the bond sales and maybe after a time we shall not be able to finance a building because of these disputes.

The fact is, these jurisdictional disputes have become a matter of grave concern to the whole public. The whole business and industrial machinery of the country is upset as one after the other important factors in the national building program are subjected to loss by these wrangles and stoppages of work. The loss begins with the wages of the trades in dispute. It spreads and spreads until large sections of the public are out of pocket. That sort of thing, if long continued, can slow up the building program of an entire section of the country. When loss comes in a package of that size, it has a bad effect on business generally. It is impossible to overemphasize the bad effects arising from one of these jurisdictional disputes. It is just as hard to overemphasize the importance of getting them settled and stopped as promptly as possible. And the worker himself can't get out of his part in getting them settled.

I don't know of anything that has done more to destroy the chances of organized labor to deal with large organized industrial interests than these civil wars among the unions. Organized labor has withstood destructive assaults, within and without its own ranks. It should root out the jurisdictional dispute. Here and there people are seeking to break the trade union movement in America, but so long as the trade union movement stands true to its principles and deserves the support of its membership and the public, it will get that support. It can not be destroyed. But like other movements in this or any other country, organized labor can commit suicide through internal dissension. And these jurisdictional disputes are just that form of suicide.

It can't be denied that these jurisdictional disputes supply those who are opposed to organized labor with just the propaganda they want for refusing to deal with the union.

Settle these disputes among yourselves, and without stoppage of work. That is profitable to all—to the workers, the builders, the owners.

It is only the building trades that are directly affected by these so-called jurisdictional disputes, but I don't know of anything that has done more to hurt labor in general. In talking with the head of a great manufacturing enterprise as to why his labor wasn't organized, he said to me, "We have more classifications in our industry than there are in the building trades, and if we were dealing with the several unions, their jurisdictional disputes would ruin our business. In the building industry, losses of that kind can be taken care of by directly taxing the people by increasing rents, and so on. But our competition is keen, and we have no way of making up losses that might result from jurisdictional disputes, and we can't take any such chances."

You see the bad effects of these disputes don't end with the building trades but reach out into other industries. In the long run they come right back and injure unionism itself.

I realize that with new inventions, improvements, changes in building materials and methods going on all the time, these craft disputes are bound to occur. Some of these are honest differences of opinion. If the question in these disputes were only wages, working conditions, or other matters between workers and employers, there might be reason for stoppage of work until adjustment is reached. But in the case of which craft shall perform a given piece of work, the owner or employer is not at fault. He has no part in the dispute. He has entered into contract, and tradesmen have accepted certain terms and conditions of employment.

Therefore, in all fairness the owner employer is entitled to labor's service even though the crafts have a difference among themselves. Our agreements call for unbroken work until the job is completed.

If the crafts can't agree, then the matter should go to this Board of Awards in which all are fairly represented. While the difference is being settled, work should go on. And when the Board has decided the question, the decision should be accepted. The resulting chaos if we don't set up and abide by this machinery is plain to all.

We cannot stop progress. Recently I visited several points in Europe and saw many buildings, but I was particularly impressed by one new form of steel construction.

Under this process a steel house is constructed in five weeks by common labor at a cost of about $2500. I cite this simply to illustrate the changes in building that are always going on, and to emphasize the need of this Board to settle these disputes. So long as the building industry continues to progress we need rely on this Board of Jurisdictional Awards, or we all go to destruction.

There are angles to this hold-up habit in building that I can't go into here, but in all the human elements that enter into it, the workman always gets the blame. The jurisdictional dispute is a blot on the fair name of trade unionism. Organized capital doesn't fight itself. It fights its enemies. Trade unionism should stop fighting itself and fight for its best interests. These constant stoppages are costly. They cost the worker, not only in loss of wages, but in constant assessments that the fighting may go on. Every loss caused by these disputes comes home to the worker because every additional cost to a building is paid in higher rents and purchases. These fights are even cutting down work, in frightening people from building.

Here is the case in a nutshell. Invention and change in building methods are going to go on. So long as progress goes on, jurisdictional disputes are bound to occur. The thing is to get them settled. Here in this Board of Awards is the machinery to get them settled. We all have a part in that machinery, and if we don't run it we go to destruction.

After all, the American worker is a business man. We have got to rely on his business sense to refer to this Board all matters of dispute. We must appeal to his business sense to abide by its decisions when handed down. And we appeal to his business sense, his sense of profit and loss to stay on the job and finish the job until his difference is ended.—*Associated Contractor.*

Reference Directory for Architects, Builders and Owners

ACCOUNTANT.
R. Landergin.....5523 Hadfield St., Phila.
ARCHITECTURAL IRON WORK
Quaker City Art Metal Works,
2445 N. Second St., Phila.
ARTESIAN WELLS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.
ARTISTS' AND ARCHITECTS' SUPPLIES.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Robbins, Chas. H., Co.....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
BOILER AND PIPE COVERINGS.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
BRICK.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
BRICK (Face, Common, Paving).
Ketcham, O. W. .....121 N. 18th St., Phila.
BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.
Joseph Rotornado.....4740 Milnor St., Phila.
BUILDING BLOCKS.
Victor Concrete Products Co.,
Primos Station, Del. Co., Pa.
BUILDERS' SUPPLIES.
Service Supply Corporation,
20th and Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CABINET WORK.
Huskey Mfg. Co. ..Columbia and Howard St., Phila.
CAST STONE
Vineland Architectural Cast Stone Works,
Vineland, N. J.
CEMENT.
The Van Sciver Corporation.
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CEMENT WORK.
D'Lauro, John .....55 E. Mermaid Lane, Phila.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.Juniper and Cypress Sts., Phila.
COLD STORAGE (Insulation and Covering)
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
COLUMNS (Metal).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
CONCRETE SEWER PIPE.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.
CONCRETE WORK.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.. Juniper and Cypress Sts., Phila.
CONTRACTORS' EQUIPMENT
Devitt, Paul J. .....1101 S. 2nd St., Phila.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation,
20th and Venango Sts., Phila.
CORK FLOORING
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
CURTIS WOODWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.
DAILY BUILDING NEWS.
Building News Pub. Co. ...1530 Chestnut St., Phila.
DAMPPROOFING.
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger.....829 N. 3rd St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Truscon Laboratories.....1505 Race St., Phila.
DOOR BEDS
Murphy Door Bed Co.....512 Bulletin Bldg., Phila.
DRAWING MATERIALS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F. Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
EXCAVATING.
Harsch, Wm. F. .....Narberth, Pa.
McCarrick Bros.....3240 N. Fox St., Phila.
Sanitary Engineering Co.....40 S. 52nd St., Phila.
FENCES.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Potts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.
FINANCING (BUILDING)
Commercial Advance Corp., 1011 Chestnut St., Phila.
Mortgage Extension Corp.,.1011 Chestnut St., Phila.
FIREPLACE EQUIPMENT.
F. R. Rosen.....5327 Market St., Phila.
FIREPROOFING.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
FLAG POLES.
J. E. Lingo & Son .....Camden, N. J.
FLOOR HARDENER.
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Concrete Waterproof Paint Co...829 N. 3rd St., Phila.
Truscon Laboratories.....1505 Race St., Phila.
FLOOR PLATES.
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.
FLUE LINING.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Cox, Abram, Stove Co., .American and Dauphin Sts.
Fleck Bros. .....44 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.
GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.
GAS RANGES.
Abram Cox Stove Co.,
American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.
GRADING
Harsch, Wm. F. .....Narberth, Pa.
GRANITE
John Meehan & Son.....916 W. Dakota St., Phila.
Vineland Architectural Cast Stone Works,
Vineland, N. J.
HARDWARE (Builders').
Devitt, Paul J. .....1101 S. 2nd St., Phila.
HAULING CONTRACTORS.
McCarrick Bros.....3240 N. Fox St., Phila.
HEATING CONTRACTORS.
Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....7038 Gray's Ave., Phila.
HEATING BOILERS.
Cox, Abram, Stove Co.,
American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
HOLLOW TILE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.
HOT WATER GENERATORS.
Edwin Elliot & Co. .....1011 Chestnut St., Phila.
INSURANCE.
Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
1711 Chestnut St., Phila.
Smith-Austermuhl Co. .....Camden, N. J.
IRON AND STEEL BARS AND PLATES.
DeCou, Richard.....11th and Noble Sts., Phila.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 8
February 24, 1926

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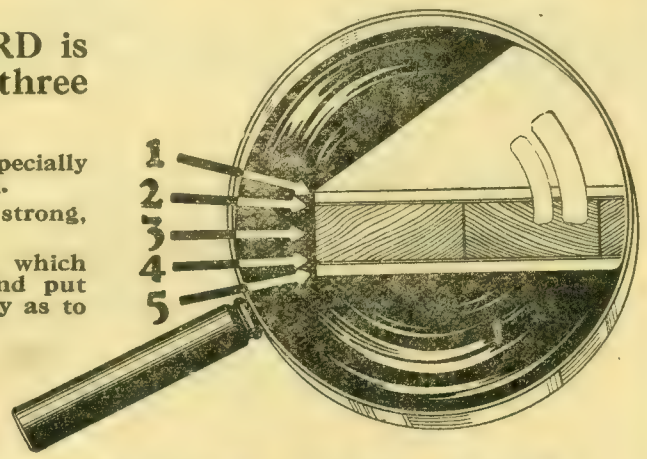
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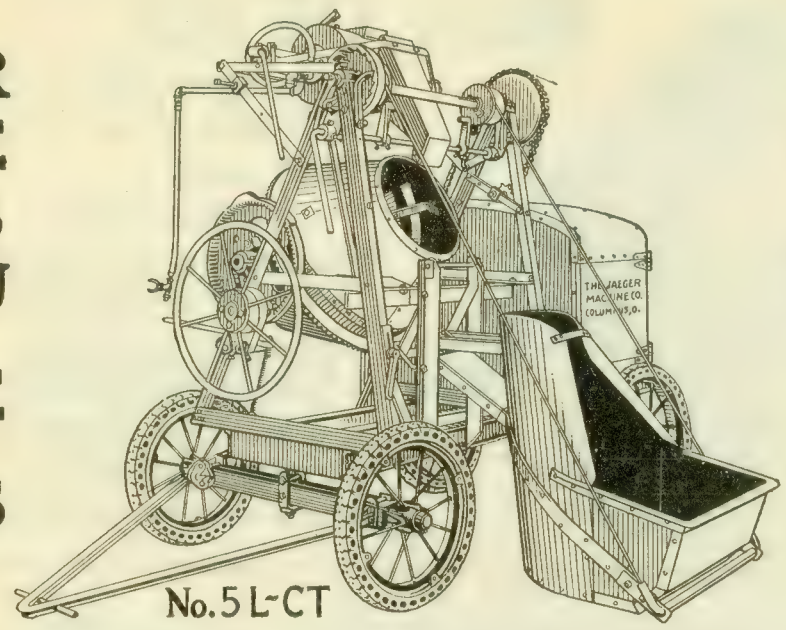
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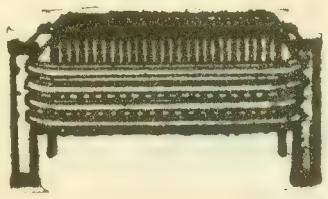
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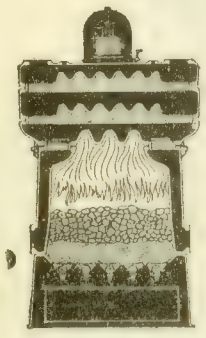
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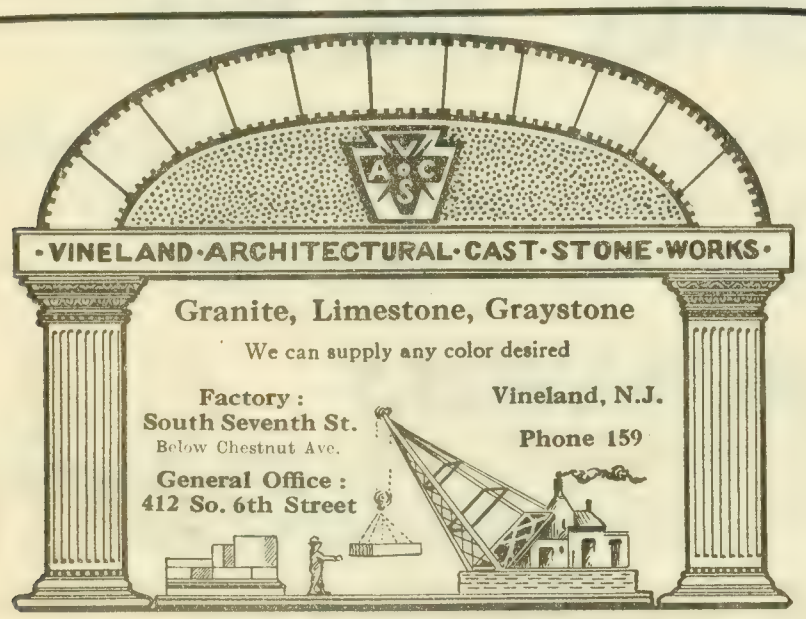
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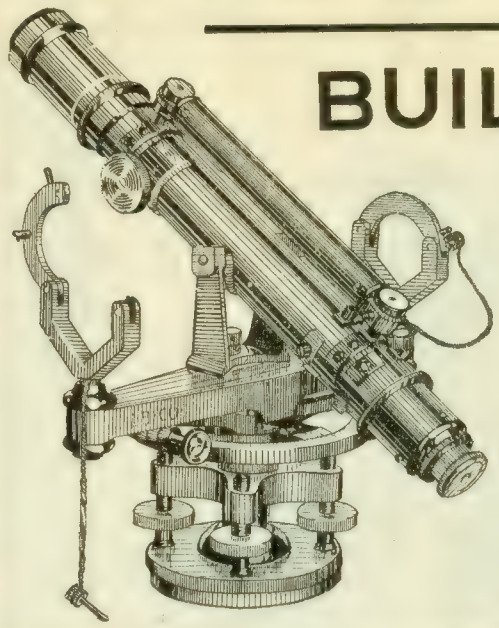
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 8

PHILADELPHIA
February 24, 1926

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As The Editor Sees It

A THOROUGHLY amazing incident occurred the other day in a store in our city. A woman of our acquaintance wished to purchase some paper napkins to be used at a George Washington dinner and asked for them at a counter of the store mentioned above. "No," replied the salesgirl, "don't carry them and I don't know anyone but a few Americans who celebrate George Washington's birthday." Needless to say the salesgirl was one of the vast horde of foreigners who seek the comforts, advantages, high wages and better living conditions offered by our great country and, then, view the Fatherland through the glamorous haze cast over it by miles of intervening ocean, and with memory dimmed by long separation from stern reality of hardships left behind them.

A very potent factor in this attitude of mind among our foreign elements is the way in which many nationalities retain their identity in this country, having their own banks, social organizations, and, most important of all, their own newspapers. If such fraternizing creates and fosters such sentiment as we have instanced above, it is up to the "few Americans" to put forth every effort to educate these newcomers to a love of country and a feeling of loyalty toward their adopted home.

We, born and bred in this land of "Hope and Glory," are so used to the wonderful conditions under which we live that we accept our blessings as a matter of course, and soon the foreigner adopts this attitude, forgets the benefits he is receiving as a result of his immigration and is viewing the land of his birth was a tenderness, reverence and loyalty far beyond its due.

It is certainly time that the "few Americans" over here start a "boost America" campaign, and the first step toward that is full realization of just what America means to all of us and the wonderfol conditions which obtain here. Other countries, today, are looking at us as the wonder nation. In Germany, for instance, the greatest interest is shown in what America is doing, many books being published on this subject. One prominent German tells us that in spite of America's high wage scale as compared with Germany's we have nothing to fear in the way of competition, for our marvelous economic efficiency more than makes up for the higher wage scale. So, apparently, we have not much to worry about on the score of foreign competition.

Let us all then, at this anniversary of the birth of our "First American" rejoice in our heritage, and spread the knowledge and realization of our manifold opportunities and advantages, so that the newcomer on our shores may be embued with a spirit of loyalty toward and pride in the most wonderful country of the world, "America!"

CONTRACTORS' RESPONSIBILITY

A Message to the Builders of America

By the National Association of Building Trades Employers

Many of the recognized leaders in the construction industry are greatly concerned about the irresponsible contractor. They look upon him as a menace to the industry and every effort is being put forth to eliminate the irresponsible operator whose only ambition is to get all he can and give as little as possible.

This is a worthy movement and should have the support of every high minded ethical man in the business.

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However, at this time it is our desire to treat the question of responsibility from a slightly different angle. We are of the opinion that a contractor who builds according to the best of his ability, following closely the plans and specifications of the architect, who uses the best materials obtainable, who employs none but the highest skilled mechanics in the various trades, who conducts his business on a high ethical plane, but who refuses to participate in and actively support the organization movement of his industry fails in his responsibility.

Perhaps his sin of omission is not as great as the sin of commission of the contractor who deliberately skimps the job, but he is failing in the discharge of a duty and an obligation which he owes to his industry.

Theodore Roosevelt once said, "Every man owes some of his time to the upbuilding of the profession to which he belongs." Every man, be he a cobbler, a lawyer, a baker, a doctor, or a contractor, should take an active interest in the work of the association movement in his particular calling.

Conditions are rarely, if ever, made better in any field of human endeavor without some concerted effort on the part of those who want to see changes brought about. This is especially true in the construction industry. If present practices and abuses are to be corrected these corrections will have to come from within the industry itself.

Considerable progress was made in the organization movement of the construction industry during the first quarter of the present century. There is, generally speaking, a better and more kindly feeling on the part of contractors toward each other. This has been brought about in a large degree through the frequent gatherings of men interested in the same business for the purpose of exchanging ideas and thoughts.

The work has, however, been handicapped owing to the refusal of scores of up-standing contractors in every community to recognize their responsibility to their industry. There are certain individuals in every line of endeavor in every city of the country who have a reputation for fairness and square dealing that makes them marked among men. The influence of these leaders is tremendous; once they are thoroughly sold on the idea of organization, the movement in that particular community begins to grow and prosper.

As we enter 1926, and the second quarter of the present century, it is the wish of the officers of the National Association of Building Trades Employers that this year and the ones to follow may witness a greater realization on the part of contractors everywhere of their duty and responsibility to this vast industry. It is our hope that those who have been pioneers in the movement locally, in the various states and nationally, may take new courage and that those who have as yet failed to discharge their full duty may be brought to a realization of their obligation.—Building Age and National Builder.

FUTURE OF CONSTRUCTION INUSTRY

Present Building Activity in Direct Relation to Declining Cost of Materials

By A. W. Dickson, Executive Secretary
National Association of Building Trades Employers, Cleveland, Ohio

It is generally accepted by those who have made a study of conditions in the construction industry that whether or not the nationwide period of intense activity of the past three years will continue at the same pace in the immediate future will depend mostly on the trend of building wages and the cost of building materials.

(Continued on Page 127)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Armory Building, 1615 Summer street, Philadelphia. Architect, private plans. Owners, State Fencibles, Infantry Corps, Colonel Thomas S. Lanard, 803 Bailey Building, Philadelphia. Brick, cut stone, limestone, granite, 2 stories and basement, 131x30 feet, slag roof, composition, cement and maple floors, painting and glazng, plumbing, metal ceilings, vapor heat, electric light, metal lath, bond, ornamental iron work, cast stone, structural steel, oil burner, sprinkler system. Owner has only one set of plans. Owner wants bids from general contractors, who must figure job in owner's office.

Mill Building, M street, North of Gary street, Philadelphia. Architect, Andrew J. Sauer & Son, Denckla Building, Philadelphia. Owners, Artcraft Silk Hosiery Mills, on premises. Brick, reinforced concrete, 1 story and basement, 192x86 feet, slag roof, cement and linoleum floors, steam heat, electric light, tile, marble and terrazzo work, rolled steel sash and skylights, rolled steel doors and kalamein doors, plumbing, elevators, sprinkler system, metal toilet partitions, area gratings. Robbins Cont. Co. taking sub-bids on all lines due as soon as possible.

Hospital Buildings (5), Eighth, Thompson and Franklin streets, Philadelphia. Architect, Amos W. Barnes, Perry Building, Philadelphia. Owners, St. Luke's and Children's Homeopathic Hospital, on premises. Brick, steel, stone, concrete, electric light, terrazzo and linoleum floors, tile and marble work, plumbing, boiler, engines, generators, water softeners. New plans in progress.

Store and Apartments, Northeast Corner Philip and South streets, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owner, care of architect. Steel, stone, brick, 3 stories, 16x60 feet, slag roof, maple floors, hot water heat, electric light, tile and marble work, hollow metal skylights, store fixtures, bond, metal bulks, metal ceilings. Plans in progress.

Theatre, Stores, Apartments and Sales and Service Building, Baltimore avenue, Forty-seventh and Warrington avenue, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, Brown & Son, 145 Fairmount avenue, Philadelphia. Brick, terra cotta, steel, stone, size of lot, 281x157x310 feet. Plans not yet started. Architect selected. Too early for details.

Residences (3), Oakley street and Martin's Mill road, Philadelphia, $31,500. Architect, private plans. Owner, Hyman Korman, Oxford avenue and Levick street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Cold Storage Warehousing Depot, Delaware Water Front near Jackson street, Philadelphia, $10,000,000. Owners, Philadelphia & Reading and Baltimore & Ohio Railroads, care of L. I. Kimble, Chief Engineer, Baltimore, Md. Reinforced concrete, steel, approximately 10 stories. Working plans about completed. Baltimore & Ohio Railroad will take bids.

Theatre, Kensington avenue and Cumberland street, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, The Stanley Co., 1916 Race street, Philadelphia. Brick, terra cotta, stone, steel, 1 story, 120x150 feet. Sketches drawn. Work contemplated.

Theatre, Broad and Erie avenue, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, The Stanley Co., 1916 Race street, Philadelphia. Brick, terra cotta, stone, steel. Sketches drawn. Work contemplated.

Theatre, Broad and Girard avenue, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, The Stanley Co., 1916 Race street, Philadelphia. Brick, terra cotta, stone, steel. Sketches drawn. Work contemplated.

Exhibit Building, Sesqui - Centennial Grounds, Philadelphia. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owners, Oil Industry, care of architect. Structural steel, metal lath, stucco, 1 story, 100x150 feet. Sketches drawn. Work contemplated.

Exhibit Building, Sesqui - Centennial Grounds, Philadelphia. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, Christian Science, care of William Turner, 910 Chestnut street, Philadelphia. Steel, metal lath, stucco. Sketches drawn. Work contemplated.

Store, 8014-16 Old York road, Philadelphia. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owner, Milton Stern, 685 North Broad street, Philadelphia. Brick, stucco, 2 stories and basement, 40x167 feet, slag roof, oak, pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Revised plans in progress.

Garage and Stores (3), B and Westmoreland streets, Philadelphia. Architects, The Penwood Co., 131 North Fifteenth street, Philadelphia. Owner, name withheld. Brick, steel, 1 story, 70x240 feet, gypsum roof, cement floors, steam heat, electric light, oil burning. Plans in progress.

Church, Price and Ardleigh streets, Germantown, Philadelphia. Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owners, Immaculate Conception, Rev. M. J. Higgins, on premises. Stone, cut stone, brick, steel, 1½ stories, 180x75 feet, slate roof. Revised plans about completed. Will be ready for bids in one week.

City Hall Annex, Filbert and Commerce streets, 200 feet East from Juniper, Philadelphia. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, City of Philadelphia, Bureau of City Property, City Hall. Brick, concrete, steel, limestone, 15 stories, 106x175 feet. Plans will be ready for bidders in 10 days.

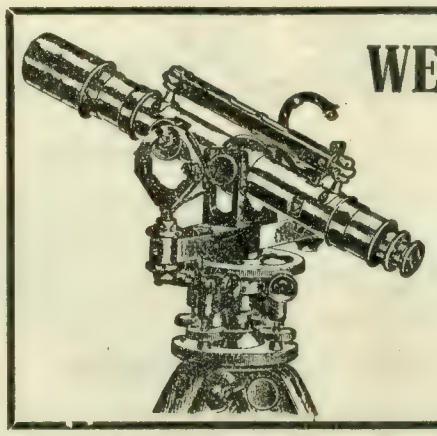
Residences (20), Frontenac street and Cheltenham road, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Cavaliere, Cortese & Contafia, on site of operation. Brick, 2 stories, 15 feet 6 inches x 38 feet, asbestos shingle and tin roof, hardwood floors, hot water heat, electric light, tile work. Owners ready for sub-bids.

Apartment House, Greene, Upsal and Hortter streets, Philadelphia. Architect, Herman Kline, Bulletin Building, Philadelphia. Owners, Company, care of Joseph P. McMahon, 4844 Roosevelt Boulevard, Philadelphia. Brick, stone, 4 stories, will contain 35 apartments, slag roof, hardwood floors, elevators, incinerator, court yard, hot water heat, electric light, tile and marble. New plans being drawn. Owners ready for sub-bids.

Residences (10), Algard street and Longshore street, Philadelphia. Owner, Max Cohen, on premises. Architect, C. A. Parker, 5018 Schuyler street, Philadelphia. Brick, 2 stories, 16x36 feet 6 inches, slate roof, hardwood and pine floors, electric light, hot water heat, tile work. Owner will build.

Residence, Norman lane, Southwest Ger-

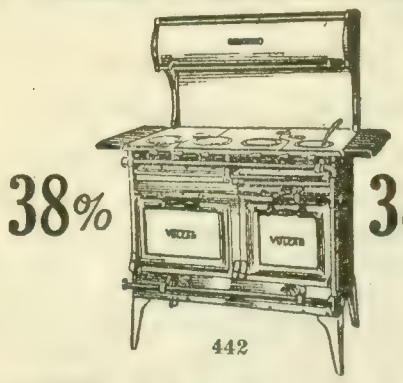
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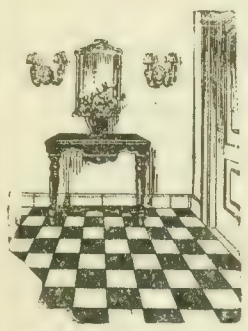
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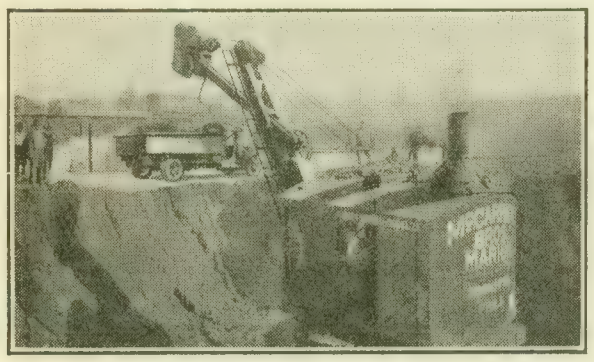
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mantown avenue, Chestnut Hill, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owner, W. C. Tuttler, 259 South Forty-sixth street, Philadelphia. Stone, steel, 2½ stories and basement, 55x37 feet, variegated slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile and marble work, painting and glazing, metal weather strip, ornamental iron work. Architects taking bids due March 1st.

Sunday School and Social Building, Northeast Corner Grange and Ogontz avenue. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Kemble Park Church, on premises. Brick, stone, cut stone, steel, 1 story and basement, 72x54 feet, slag roof, cement and pine floors, hollow tile, electric light, marble, terrazzo work, rolled steel sash, ornamental iron work, painting, hardware, plumbing, caulking, dampproofing. Architect taking bids due February 26th, 5 P. M.

Service Station (add.), Fifteenth and Passyunk avenue, Philadelphia. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owner, Charles K. Johnson, Fifteenth and Passyunk avenue, Philadelphia. Brick, steel, 2 stories and basement, 75x40 feet (plumbing, heating and electric reserved), slag roof, cement floors, metal lath, tile work, ornamental iron work. Architect taking bids due February 25th, 4 P. M.

Apartment House, Northwest Corner Sixty-fifth and Haverford avenue, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Frank Cellucci, 2251 Greenwich street, Philadelphia. Brick, cast stone, steel, 2 stories and basement, 125x22 feet, slag roof, oak, pine and composition floors, plumbing, painting and glazing, steam heat, electric light, tile work, metal lath, ornamental iron work, Kinevator sprinkler system. Architect taking bids due March 1st at noon.

Residence and Garage, Chestnut Hill, Pa. Architect, R. L. Colton, 225 South Sydenham street, Philadelphia. Owner, Charles M. Horter, 211 North Thirty-sixth street, Philadelphia. Stone, 2½ stories, 29x45 feet, wing 20x21 feet, hot air heat, electric light, 2 tile baths, wood shingle roof (hardwood floors reserved). Architect taking bids due March 1st.

New School, Sixth and Master streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due March 2nd.

Store Building, 3055-57 Kensington avenue, Philadelphia. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Brick, cut stone, steel, limestone, 3 stories and basement, 32x66 feet, slag roof (plumbing, heating and electric separate), oak and pine floors, metal lath, rolled steel sash, ornamental iron work. Architect taking revised bids due as soon as possible.

Factory, G and Luzerne streets, Philadelphia. Architect, C. E. Wunder, 1520 Locust street, Philadelphia. Owners, Huck & Gerhardt, Inc., 1030 North Bodine street, Philadelphia. Brick, steel, 1 story and basement. Architect taking bids due February 25eh.

Miscellaneous Paving, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 216 City Hall. Owners taking bids due March 2nd at noon. Certified check 5 per cent. of bid. Inquire Room 232. Asphalt repaving, redressed granite block repaving, removal of circular plot in Broad street, South of Oregon avenue. Curb and paving work.

Miscellaneous Work, Twenty-first and Oregon avenue, Philadelphia. Owners, United States Quartermaster's Intermeditae Station, Twenty-first and Oregon avenue, Philadelphia. Erection of brick stack and steel breeching for auxiliary boiler house. Owners taking bids due March 3rd, 11 A. M.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Owners taking bids due March 3rd, noon. Certified check 5 per cent. of bid. Contract No. 796, furnish and lay small pipe lines in streets to be paved. Contract No. 799, furnish and install electric receiving equipment for Queen Lane booster station. Contract No. 796 is subject to future appropriation by Council. Inquire Room 788.

Contract No. 24, Delaware River Bridge. Architect, private plans. Owners, Delaware River Bridge Commission, Widener Building, Philadelphia. Miscellaneous metal work, including: Furnish fabricating, erecting and painting of miscellaneous metal work, comprising of hand rails, posts, gradings, manhole covers, structural steel, cross walks at the towers, hood over tops of towers, anchorage cables, benches, etc. Contract time 3 to 7 months for portions of the work as scheduled. Lump sum bids are asked. Deposit, $25, refunded. Certified check, $50,000, bond. Owners taking bids due March 3rd, 2.30 P. M.

Contract No. 25, Delaware River Bridge. Architect, private plans. Owners, Delaware River Bridge Commission, Widener Building, Philadelphia. Electrical equipment for the brdge, including: Installaton of electrical wiring and equipment for lighting and power on the bridge, comprising transformers, lighting fixtures and lamps and two automatic elevators. Contract time is 3 to 7 months for portions of the work as scheduled. Lump

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sum bids are asked. Deposit, $25, refunded. Certified check, $30,000. Bond. Owners taking bids due March 3rd, 2.30 P. M.

Contract No. 26, Delaware River Bridge. Architect, private plans. Owners, Delaware River Bridge Commission, Widener Building, Philadelphia. Wrapping of cables of the bridge, including: Wrapping the cables with serving wire, painting them and tightening the bolts in the cable bands. Contract time 7 months. Lump sum bids are asked. Deposit, $25, refunded. Certified check, $15,000. Bond. Owners taking bids due March 3rd. 2.30 P. M.

Contract No. 27, Delaware River Bridge. Owners, Delaware River Bridge Commission, Widener Building, Philadelphia. Grading, paving, etc., Camden approach, Fifth to Seventh streets. Construction of special inlets and drain traps included, paving and repaving of roadway, sidewalks and other work. Contract time 3 months. Unit price bids asked. Deposit, $25, refunded. Certified check, $20,000, bond. Owners taking bids due March 3rd, 2.30 P. M.

Miscellaneous Work, Twenty-first and Oregon avenue, Philadelphia. Owners, Philadelphia Quartermaster's Intermediate Depot, Twenty-first and Oregon avenue, Philadelphia. Owners will take bids due March 1st, 11 A. M. Erection of structural steel work, furnishing steel sheeting, roofing and painting, all in connection with extension of auxiliary boiler house.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of City Property, Philadelphia. Owners taking bids due February 25th at noon. Certified check 5 per cent. of bid. Inquire Room 117. Furnish and lay sod in various parks and squares for year of 1926. Elmwood Park, Seventy-first and Buist avenue, Square Seventy-second and Dicks avenue, Fortieth Ward, improvement.

Garage (alts.), South side Richmond street, East of Front street, $12,000. Architect, private plans. Owner, William W. Meirs, 4 East Richmond street, Philadelphia. General alterations. Permit granted.

Garage (add. and alts.), East side Ninth street, North of Dauphin, $8,000. Architect, private plans. Owners, Philadelphia Rapid Transit Company, 810 Dauphin street, Philadelphia. Brick, 2 stories, 23x20 feet, general alterations. Permit granted.

Residences (24), Seventeenth street, Champlost avenue and Widener Place, $132,000. Architect, private plans. Owner, S. S. Brenner, 963 Drexel Building, Philadelphia. Brick, (16) 2 stories, (8) 3 stories, various sizes, slag roof, pine and hardwood floors, hot water heat, electric light. Permit granted.

Residences (15), Akron and Sangor streets, Philadelphia, $68,000. Architect, private plans. Owner, O. Kiely, 3118 Midvale avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Permit granted.

Garage, Northwest Corner Whittaker and Thelma streets, Philadelphia, $2,500. Architect, private plans. Owners, Di Marco Brothers, 608 East Wyoming avenue, Philadelphia. Brick, 1 story, 37 feet 5 inches x 59 feet, slag roof, cement floors, electric light. Permit granted.

Garage, 6012-20 Cedar avenue, Philadelphia, $15,000. Architect, private plans. Owner, B. Bornstein, 1318 Wingohocking street, Philadelphia. Brick, 1 story, 88x112 feet ,slag roof, cement floors, electric light. Permit granted.

Storage (alts.), 3500 Gray's Ferry road, Philadelphia, $2,500. Architect, private plans. Owners, E. I. duPont-De Nemours Co., on premises. General alterations. Permit granted.

Residences (6), Hartsel, Cottage and Decatur streets, Philadelpiha, $4,500 each. Architect, private plans. Owner, John G. Stevenson, 7014 Hagerman street, Philadelphia. Brick, 2 stories, 16x16 feet, 18x26 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (24), East side Mercer street, North of Westmoreland street, $3,000 each. Architect, private plans. Owner, J. L. Wixa, 4432 Edgemont street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, pine floors, electric light. Permit granted.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Restaurant (add. and alts.), 2367 Orthodox street, Philadelphia, $2,000. Architect, private plans. Owner, Walter Preisner, 2367 Orthodox street, Philadelphia. Brick, 1 story add., 16x12 feet, general alterations. Contract awarded to Alex. Jestrzembski, 4539 Bermuda street, Philadelphia.

Memorial Hospital, Filmore, Shelmire, Hartel and Hasbrook streets, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, A. T. Jeanes Memorial Hospital, care of architect. Stone, brick, cut stone, steel (plumbing, heating and electric separate), variegated slate roof, linoleum and cement floors, hollow tile, metal lath, tile and marble work, hollow metal sash and doors, bond, ornamental iron work, limestone, flagstone, precast stone, area gratings, metal partitions, Duraflex and Marbleoid floors, hospital, 2½ stories, 26x54 feet, 82x43 feet, 43x58 feet, administration building, 2½ stories, 100x53 feet, nurses' home, 2½ stories, 187x38 feet. Contract awarded Robert E. Lamb Co., 843 North Nineteenth street, Philadelphia.

Building (add.), 229 Callowhill street, Phildelphia. Architect, private plans. Owners, Gilbert & Bye, 36 South Water street, Philadelphia. Brick, 3 stories and basement, 20x30 feet, slag roof, pine floors, steam heat, electric light, plumbing. Contract awarded Frank E. Wallace, 337 South Camac street, Philadelphia.

Hotel, Changing into Office Building, 1429 Walnut street, Philadelphia. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Drexel & Co., Fifth and Chestnut streets, Philadelphia. General alterations, stairway, painting and glazing, cement work, elevators, brick work, carpentry and mill work, new boiler room in sub-basement. Contract awarded Doyle & Co., 1519 Sansom street, Philadelphia.

Residence and Garage, Oxford pike and Horrocks street, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Mrs. Bertha B. Erdrich, 1890 Bridge street, Philadelphia. Stone, 2½ stories, 43x36 feet. Contract awarded James Johnson, 1606 Swain street, Philadelphia.

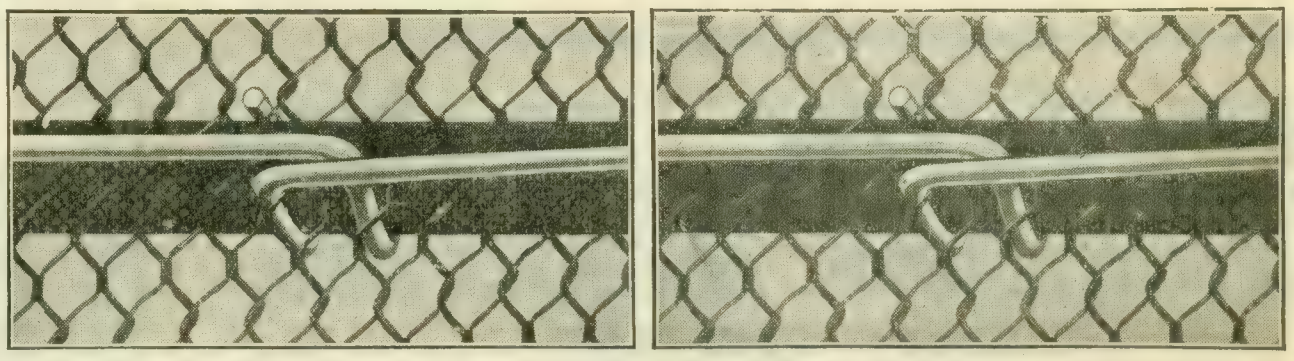
Residence, Chestnut Hill, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, A. R. Bensinger, Ardmore and Wynnemore avenues, Chestnut Hill. Contract awarded E. Allen Reeves, Abington, Pa.

Ice Storage Plant (add.), East side Van Dyke street, North of Lenck street, $18,000. Architect, private plans. Owners, Kensington Hygeia Ice Co., Huntingdon and Kensington aveues. Brick, 1 story add., 94x91 feet. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Restaurant (alts.), 213-15 South Broad street, Philadelphia, $8,000. Owners, Heymann & Co., on premises. General alterations. Contract awarded to L. Barth & Co., Inc., Cooper Square, New York.

Hotel (add.), Northeast Corner Fitler and Delaware avenue, Philadelphia, $5,800. Archi-

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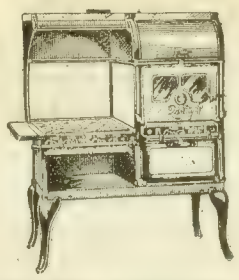
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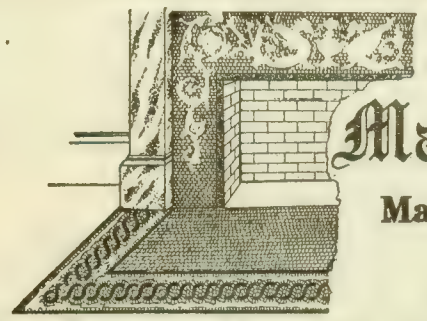
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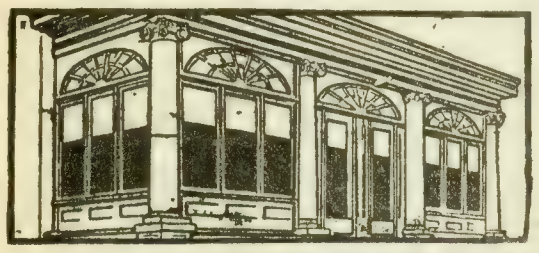
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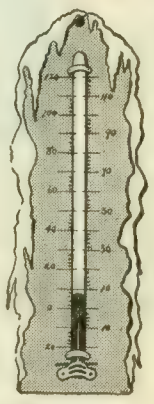
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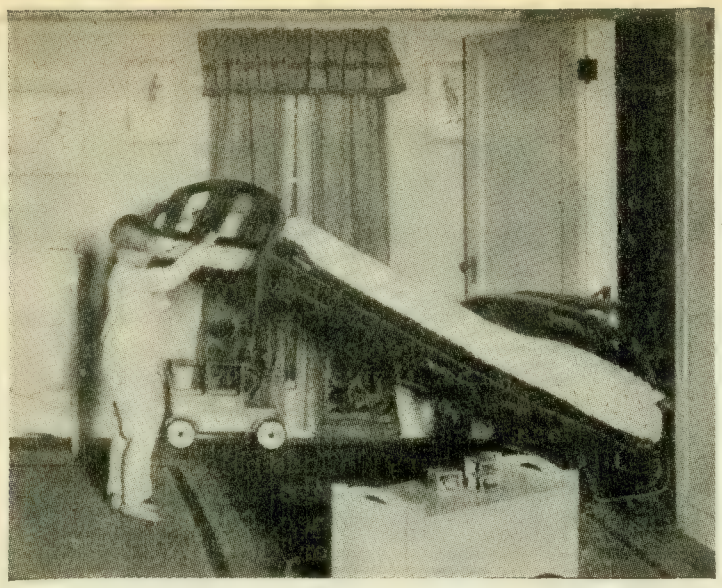
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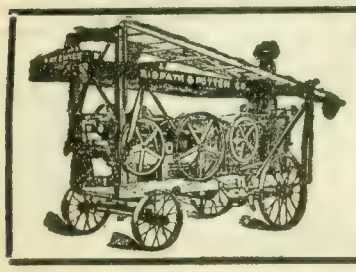
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Store and Residence (add.), 619 South Thirteenth street, Philadelphia, $2,000. Architect, private plans. Owner, S. Hardeman, 1234 Christian street, Philadelphia. Brick, 2 stories add., 10x13 feet, slag roof, pine floors. Contract awarded to H. F. Dillon, 5935 Kingsessing avenue, Philadelphia.

Meat Storage Shed, 917-25 Noble street, Philadelphia, $2,000. Architect, private plans. Owners, Armour Co., Chicago, Ill. Wood, 1 story, 18x96 feet. Contract awarded to T. A. Stontenbourgh, 2102 Market street.

Stores and Garage (alts.), 19-21-23 South Fortieth street, Philadelphia, $5,600. Architect, private plans. Owner, John Smith, Fortieth and Ludlow streets, Philadelphia. General alterations. Contract awarded to Warren E. Biscoe, Fortieth and Baring streets.

Warehouse (add.), 1235-37 Vine street, Philadelphia, $3,180. Architect, private plans. Owner, Harris M. Smith, 1237 Vine street, Philadelphia. Brick, 1 story add., 30 feet 6 inches x 50 feet. Contract awarded to W. L. Davenport, 1519 North Fifty-eighth street, Philadelphia.

Factory (add.), 1138 North American street, Philadelphia, $2,100. Architect, private plans. Owners, M. Rice & Co., Twelfth and Spring Garden streets, Philadelphia. Elevator shaft, 4 stories. Contract awarded to George W. Botsford, 2401 North College avenue, Philadelphia.

Storage Building (repairs), North side Margaret street, East of North, $4,500. Architect, private plans. Owners, Lewis Thompson Co., 1227 Germantown avenue, Philadelphia. General fire repairs. Contract awarded to W. F. Roth, Erdenheim, Pa.

Store and Residence (add. and alts.), 518 South Fifth street, Philadelphia, $4,000. Architect, private plans. Owner, Henry Uram, 518 South Fifth street, Philadelphia. Brick, 1 story add., 3 feet 6 inches x 25 feet, general alterations. Contract awarded to Wolf & Sheffit, 3819 Poplar street, Philadelphia.

Storage Pocket, Northeast Corner Sixth and Columbia avenue, Philadelphia, $3,000. Architect, private plans. Owners, Henry Sheip Mfg. Co., on premises. Concrete, 82 feet high, 17 feet diameter. Contract awarded to Nicholson Co., 247 Park avenue, New York.

Store and Residence (alts.), 2407 East York street, Philadelphia, $2,500. Architect, private plans. Owner, Anton Solinsky, 2407 East York street, Philadelphia. General alterations. Contract awarded to John Graber, 2936 Cedar avenue, Philadelphia.

Store and Storage Building (alts.), 1902 South College avenue, $2,700. Architect, private plans. Owner, Isadore Benson, 1857 North Camac street, Philadelphia. General alterations. Contract awarded to Schectman Brothers, 1924 North Marshall street, Philadelphia.

Lodge Room (alts.), 1626 Arch street, Philadelphia, $2,300. Architect, private plans. Owners, Grand Fraternity, on premises. General alterations. Contract awarded to William M. Thompson, 1529 Filbert street, Philadelphia.

Store and Residence (add. and alts.), 2405-07 East York street, $2,200. Architect, private plans. Owner, Anton Solinski, 2405 East York street, Philadelphia. Brick, 1 story add., 15x22 feet 6 inches, general alterations. Contract awarded to John Graber, 2986 Cedar street, Philadelphia.

Store (add. and alts.), 2821 Germantown avenue, Philadelphia, $4,500. Architect, private plans. Owner, Harry Shapiro, 1214 North Fifty-second street, Philadelphia. Brick, 2 stories, 4x40 feet, general alterations. Contract awarded to Samuel A. Rogers, 5312 Thompson street, Philadelphia.

Store and Office (add.), 855 East Allegheny avenue, Philadelphia, $3,500. Architect, private plans. Owner, Dr. William R. Conley, 857 East Allegheny avenue, Philadelphia. Brick ,2 stories add., 14x7 feet. Contract awarded to Clayton & Davidson, 2030 East Westmoreland street.

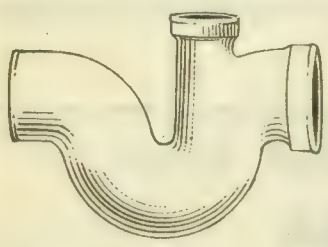
Club RoRom and Office (alts.), 29 South Sixteenth street, Philadelphia, $3,000. Architect, private plans. Owner, J. D. McGoldrick, Sr., 206 South Thirteenth street, Philadelphia. General alterations. Contract awarded to Albert Zellfelder, 1324 Walnut street, Philadelphia.

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Pennsylvania Construction News

Printing Plant, Easton, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Mack Printing Co., Easton, Pa. Architects taking bids due March 2nd.

Mill Building, Spring City, Pa. Architect, Fred Muhlenberg, Reading, Pa. Owners, Schuylkill Valley Mills, Inc., William Myer, care of Apex Hosiery Co., Fifth and Luzerne streets, Philadelphia. Reinforced concrete, brick, steel, 3 stories and basement, 80x90 feet, slag roof, cement floors, hollow tile, elevators, painting and glazing, plumbing, safety treads, waterproofing, ornamental iron work, sprinkler system, steel partitions, hollow metal doors, rolled steel sash, metal lath, steam heat, electric light. Architect taking bids due March 1st.


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Thaddeus Stevens Junior High School, Williamsport, Pa. Architects, Guilbert & Betelle, Chamber of Commerce Building, Newark, N. J. Owners, Board of Education, Williamsport, Pa. Lowest bidders: John Cunningham, Elmira, N. Y., $296,862; C. W. Strayer & Co., Harrisburg, Pa., $307,900.

Building (add.), Norristown, Pa. Engineer, Charles Heckman, Bellvue Court Building, Philadelphia. Owners, Fowler-Wolfe, Norristown, Pa. Brick and steel. Engineer taking bids due February 25th.

Penn Beaver Hotel, Rochester, Pa., $300,000. Architects, Day & Zimmerman, 1600 Walnut street, Philadelphia. Owners, Beaver Valley Community Hotel Co., W. S. Hownsend, president, 184 George street, Rochester, Pa. Brick, steel, stone, concrete, 5 stories, electric light, elvators. Plans drawn.

Fraternity House, Carlisle, Pa. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owners, Phi Epsilon Pi, Carlisle, Pa. Brick. Architect selected. Preliminary plans in progress.

Church and Sunday School, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Church of Our Lady of Pompeii, Rev. Joseph C. Matera, 718 East Fifth street, Bethlehem, Pa. Steel, granite trim, 3 stories, 52x120 feet, slate roof, hardwood floors, vapor heat, electric light. Preliminary plans in progress.

Stores (4), Apartment, Wayne, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Joseph M. Fronefield, 3rd, 104 North Wayne avenue, Wayne, Pa. Brick, 2 stories, 20x30 feet, hot water heat, electric light, slag roof, hardwood and pine floors. Plans in progress.

Residence and Garage, Merwood road, Merion, Pa. Architect, J. E. Lowery, Land Title Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 30x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, oil burning. Plans in progress.

Residence, Williamsport, Pa. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, Mrs. Marshall Welch, Williamsport, Pa. Brick, 2½ stories, 56x37 feet. Spanish tile roof, hardwood floors, hot water heat, electric light. Owner will build.

Delaware County Hospital, Conway Tract, Lansdowne avenue, Upper Darby, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Delaware County Hospital, care of Dr. T. Clawson, Beswick, Upper Darby. Brick, stone, steel, 4 stories, 50 to 60 beds. Ready for bids in one week.

Mill Building (add.), Easton, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Gunning Silk Co., Easton, Pa. Brick, 1 story, slag roof. Ready for bids in one week.

Store and Office (alts. and add.), Easton, Pa. Architects, Ruhl & Lange, 10 North Sixth street, Allentown, Pa. Owners, Farr Brothers & Co., H. H. Farr, 739 Hamilton street, Allentown, Pa. Brick, 1 story, 30x79 feet, slag roof, hardwood floors, electric light, terra cotta trim. Architect will be ready for bids in a few days.

Store (alts.), Easton, Pa., $35,000. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owners, Bricker-Hochman Co., care of architect. Structural steel, vapor heating, pine floors, (2) elevators, tile and marble, plate glass, copper work, general alterations. Architect ready for sub-bids.

Store Building (add. and alts.), 450 Northampton street, Easton, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, William R. Bricker, care of architect. Brick, steel, 1 story, 30x60 feet, slag roof, pine floors, plate glass, vapor heat, electric light, tile and marble work. Architect will take sub-bids.

Motor Building, Sixty-ninth street, Upper Darby, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, George Wilson, care of architect. Brick, reinforced concrete, cut stone, cast stone, 2 stories and basement, 196x90 feet, irregular, slag roof, cement and composition floors, plumbing, steam heat, electric light, metal lath, hollow metal sash, fire doors, bond, ornamental iron work. Architects taking bids due February 25th at 5 P. M.

Lodge Building, Williamsport, Pa. Architect, F. Arthur Rianhard, Masonic Temple, Williamsport, Pa. Owners, B. P. O. E., No. 173, Williamsport, Pa. Brick, steel, concrete, stone, front, 4 stories, 60x90 feet, rear, 1 story, 90x110 feet, built-up roof, fireproof floors, hollow tile or cinder block, elevator shaft only, safety treads, roof ventilators, metal weather strip, waterproofing and dampproofing, flagstone, brass pipe, ornamental iron work, iron stairs, floor hardener, fire doors, probably bond, metal sash, tile work, metal lath, electric light. Architect taking general and sub-bids due March 15th.

Building, Conshohocken, Pa. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Recorder Publishing Co., Conshohocken, Pa. Brick, cut stone, steel, 1 story and basement, 83x85 feet, slag roof, cement floors, electric light, metal lath, tile and marble work, rolled steel sash, bond, floor hardener, ornamental iron work, waterproofing, painting. Architects taking bids due February 25th.

Grade School, Susquehanna and Johnston avenue, Roslyn, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Phihladelphia. Owners, Board of Education, Abington Township, J. Oliver Potts, president, Glenside; Charles M. Doll, secretary, Elkins Park, Pa. Brick, cut stone, stone, limestone, steel, 1 story and basement, 162x68 feet, variegated slate roof, cement, wood block composition, oak, pine floors, hollow tile, composition treads, painting and glazing, metal lath, tile and marble work, copper skylights, bond, ornamental iron work, iron stairs, Duraflex floors, granite, metal toilet partitions, precast stone, concrete blocks, area gratings. Owners taking bids due February 26th, 7 P. M.

Grade School, Edge Hill and Welsh roads, Overloon Hill, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education of Abington Township, J. Oliver Potts, president, Glenside; Charles M. Doll, secretary, Elkins Park,

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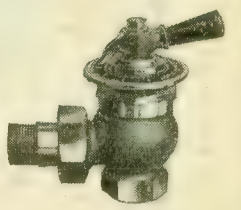
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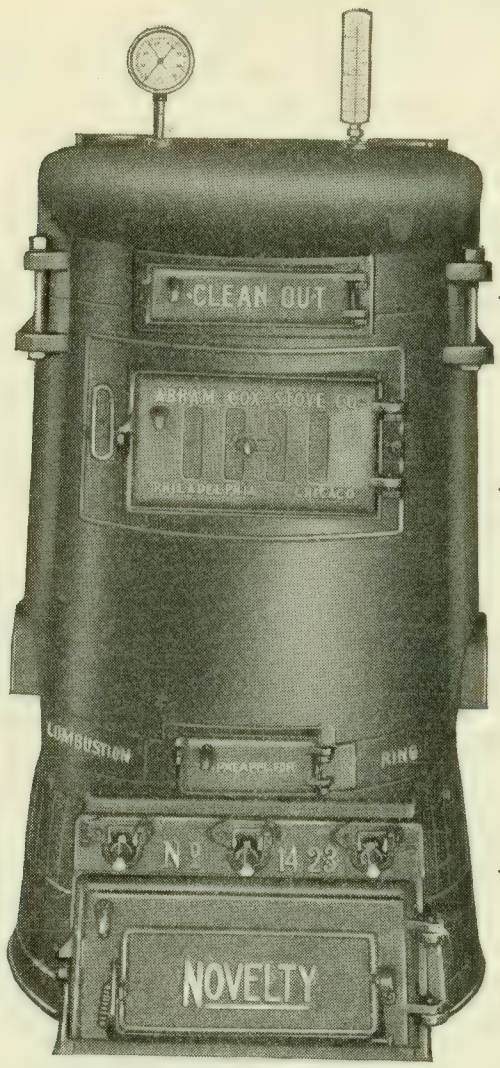
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The combustion ring. Latest improvement in round boilers. Prevents the lower portion of the fire bed from coming in contact with the chilling water section around the firepot, which chills the fire below the temperature of combustion. Gives the boiler a longer firing period and saves fuel.



3.

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4.

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5.

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The combustion ring surrounds the firepot to a height of 4½ inches above the grates, and it has increased the heating capacity alone of the boiler to equal that of a size larger in the old style type.

This ring prevents the lower portion of the firebed from coming in contact with the water sections which surround the firepot. The cool water returning from the radiators, enters both sides of the boiler at the bottom of the water section. This water, because it is much cooler than the fire, chills the fire around the sides of the pot, below the temperature of combustion. The result is, that the boiler requires more frequent attention. Also, partly burned fuel along the sides of the firepot is wasted because there is no fire under it to burn it and it settles down to the grates, passing to the ashpit when the fire is shaken.

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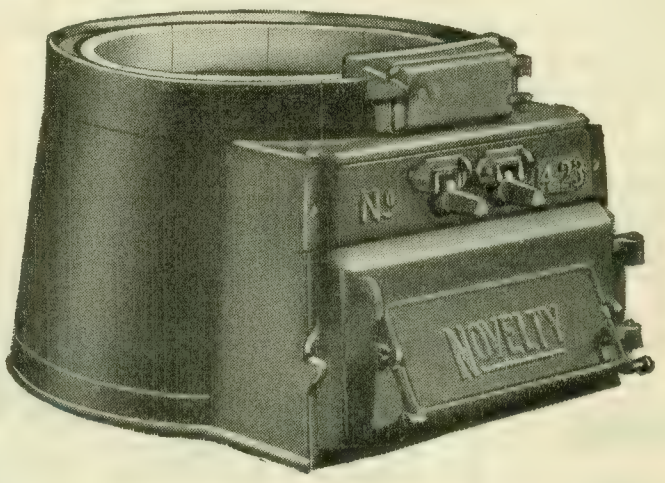


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Abington High School (add.), Susquehanna and Huntingdon roads, Abington. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Abington Township, J. Oliver Potts, president, Glenside; Charles M. Doll, secretary, Elkins Park, Pa. Stone, brick, cut stone, steel, 2 stories and basement, 53x62 feet (plumbing, heating, electric, ventilation separate bids), green slate slag roof, composition, maple and cement floors, hollow tile, painting and glazing, dampproofing, metal lath, rolled steel skylights, bond, ornamental iron work, limestone, granite, area gratings, Duraflex floors. Owners taking bids due February 26th, 7 P. M.

Sewer Work, Darby, Pa. Engineers, Damon & Foster, Sixty-ninth and Market streets, Upper Darby, Pa. Owners, Borough of Darby, E. R, Franklin, Main and Ridge streets, Upper Darby, Pa. Owners taking bids due March 1st, 8 P. M., for construction of sewer on northerly side of Main street, from Thirteenth street to Simpson Stewart line. Certified check $100.

High School (add.), Ardmore, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion Township School Board, Merion, Pa. Low bidders: Wills-Bill Co., 1706 Sansom street, Philadelphia, $274,724; Bowden Const. Co., 1706 Sansom street, Philadelphia, $280,800. Plumbing, Bulman Brothers, Fifth and Cumberland streets, $11,166. Electric, United Elec. Co., 2318 Sansom street, Philadelphia, $12,800. Heating, N. Connolly, 1404 North Eighteenth street, Philadelphia, $27,107.

Schools (4), Drexel Hill, Highland Park, Bywood, Stonehurst, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, School Board of Upper Darby Township, J. M. Lutz, Upper Darby. Low bidders: Drexel Hill School—Friel-McLeister Co., 1615 Spruce street, Philadelphia, $177,777; Bowden Const. Co., 1607 Summer street, Philadelphia, $181,900; heating and ventilating, American Heating & Ventilating Co., Schaff Building, $24,139; plumbing, J. Borden Brother, 637 North Nineteenth street, Philadelphia, $10,350; electric, Arrow Electric Co., 5112 Whitney avenue, Philadelphia, $4,150. Low bidders: Highland Park School—S. A. Sims Co., 2315 Walnut street, Philadelphia, $101,371; D. Lutz & Co., Twenty-third and Chestnut streets, Philadelphia, $103,500; heating and ventilating, Mechanical Equipment Co., 214 South Twelfth street, $9,194; plumbing, J. Borden & Brother, 637 North Nineteenth street, Philadelphia, $2,685; electric, Arrow Electric Co., 5112 Whitby avenue, Philadelphia, $3,670. Low bidders: Bywood School—D. Lutz & Co., Twenty-third and Chestnut streets, Philadelphia, $161,900; Wills-Bill Co., 1706 Sansom street, Philadelphia, $162,621; heating and ventilating, American Heating & Ventilating Co., Schaff Building, Philadelphia, $24,139; plumbing, S. Faith & Co., 2427 Pennsylvania avenue, Philadelphia, $9,779; electric, Arrow Const. Co., 5112 Whitby avenue, Philadelphia, $4,189. Low bidders: Stonehurst School—John McShain, 1713 Sansom street, Philadelphia, $208,629; Bowden Const. Co., 1607 Summer street, Philadelphia, $209,900; heating and ventilating, American Heating & Ventilating Co., Schaff Building, $26,290; plumbing, J. Borden & Brother, 639 North Nineteenth street, Philadelphia, $10,463; electric, Arrow Electric Co., 5112 Whitby avenue, Philadelphia, $4,533.

Pennsylvania Contracts Awarded

Memorial Library, Lancaster pike and Bryn Mawr avenue, Bryn Mawr, Pa. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owners, Bryn Mawr Memorial and Community House Association, on premises. Donor, C. H. Ludington, Ardmore, Pa. Stone, cut stone, brick, 1 story and basement, 49x69 feet, slag and slate roof, linoleum, oak and pine floors, painting and glazing, vapor heat, electric light, metal lath, tile work, bond, ornamnetal iron work, dampproofing, plumbing, limestone, area gratings. Contract awarded Gray Brothers, Rosemont, Pa.

Residence and Garage, Wynnemoore, Pa. Architect, Carl Ziegler, 1012 Walnut street, Philadelphia. Owner, Charles Lee, care of architect. Stone, 2½ stories and basement, 28x64 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Contract awarded Fesmire Brothers, Huntingdon Valley, Pa.

Theatre, Store and Apartment, Willow Grove, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Rothwell Co., care of E. Rothwell, Willow Grove, Pa. Brick, steel, 1 story and 2 stories, 200x60 feet, composition slag roof, cement and composition floors, hollow tile, plate glass, metal sash, rolled steel skylights, bond, ornamental iron work, iron stairs, cast stone, cinder block, metal partitions. Contract awarded W. Edward Pierce, 328 South Juniper street, Philadelphia. (Note contractor.)

Y. M. C. A. Building, Bradford, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, care of Ralph George, Bradford, Pa. Brick, steel, 3 stories, 63x90 feet, built-up roof, linoleum floors, hollow tile, dumbm elevators, cut stone, iron stairs, fire doors, steel skylights, tile work, metal lath, steam heat, electric work. Contract awarded to Tuna Mfg. Co., Bradford, Pa. Plumbing to A. D. Burns Co., Bradford, Pa. Heating to F. C. Paterson Co., Bradford, Pa. Electric to Brantz Electric Co., Bradford, Pa.

Residence (alts), Devon, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, S. P. Curtis, Devon, Pa. Stone, cement and brick work, cut stone, limestone, sheet metal work, carpentry and mill work, painting and glazing, hardware, tile and marble work, electric light, plumbing. Contract awarded E. J. Heddon, Finance Building, Philadelphia.

Residence (alts.), Paoli, Pa. Architect, Arthur Brockie, 254 South Fifteenth street, Philadelphia. Owner, A. H. Dickson, on premises. General interior alterations, carpentry and mill work, painting and glazing, hardware. Contract awarded R. C. Ballinger, 925 Walnut street, Philadelphia.

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New Jersey Construction News

Residences (2), 15 and 35 Terrace avenue, Camden, N. J., $8,000 each. Architect, private plans. Owners, John A. Hendrickson & Son Co., 30 North Thirty-sixth street, Camden. Brick and block, 2 stories, 20x54 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Hospital Buildings, Madison avenue, Mt. Holly, N. J., $300,000. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Burlington County Hospital, care of Mrs. V. C. Palmer, 517 Chestnut street, Moorestown, N. J. Brick, steel, concrete. Preliminary plans drawn. Too early for details.

Collector's Office, Mt. Holly, N. J. Architect, H. O. Ziegler, 1012 Walnut street, Philadelphia. Owners, Board of Freeholders, Burlington County, N. J. Brick, 1 story. Plans in progress.

Hospital for Insane (add.), New Lisbon, N. J. Architect, Herbert O. Ziegler, 1012 Walnut street, Philadelphia. Owners, Board of Freeholders, Burlington County, N. J. Brick, 4 stories add. Plans in progress.

Tuberculosis Hospital (add.), New Lisbon, N. J. Architect, H. O. Ziegler, 1012 Walnut street, Philadelphia. Owners, Board of Freeholders, Burlington County, N. J. Brick, frame, 2 stories. Plans in progress.

Apartment, South New Jersey avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Mr. Cades, care of architect. Brick, steel, 4 stories, 39x134 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, elevators. Plans in progress.

Chauffeur's House and 4-Car Garage, Haddonfield, N. J. Architect, Ellery K. Taylor, 1416 Chestnut street, Philadelphia. Owner, Richard M. Cooper, Ashland, N. J. Frame, brick, 2 stories, 24x58 feet, slate roof, cement and pine floors, hot water heat, electric light. Plans in progress.

Residence and Garage, Haddon Farms Estate, Haddonfield, N. J. Architect and owner, Ellery K. Taylor, 1416 Chehstnut street, Philadelphia. Cement block and stucco, 2½ stories, 34x38 feet, tile roof, oak floors, hot water heat, electric light, tile work, steel sash. Plans in progress.

Residence (alts.) to Stores and Apartments, Princeton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, Frank Warren, Princeton, N. J. New partitions, hardwood floors, plate glass, metal ceilings, terra cotta, tile and marble. Plans in progress.

Residences (2) to Apartments and Stores, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, E. G. Brooks, 814 East State street, Trenton, N. J. Partitions, plate glass, hardwood floors, copper work, tile and marble, metal ceilings, terra cotta. Plans in progress.

Factory, Fernwood, N. J. Engineer, M. Ward Easby, Schaff Building, Philadelphia. Owners, Ajax Electrophermic Corporation, Dernwood, N. J. Brick, steel, 1 story and 2 stories, 200x60 feet, steam heat, electric light, slag roof, cement floors. Plans in progress.

Hotel, Brigantine Beach, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Brigantine Const. Co., Atlantic City, N. J. Semi-fireproof, 5 stories, 200x200 feet, flat roof, hardwood floors, hollow tile, elevators, roof ventilators, brass pipe, iron stairs, fire doors, steel sash, tile and marble, metal lath, steam heat, electric light. Architect will be ready for bids in one week.

Stores and Apartments (2), Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Charles Sheppard, Pleasantville, N. J. Concrete, 2 stories, 40x65 feet, slag roof, hardwood floors, metal ceilings, hot water heat, electric light, tile work, plate glass. Owner taking sub-bids.

Residences (6), Winchester Gardens, Margate City, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City. Owners, F. J. Pedrick & Son, 1013 Boardwalk, Atlantic City. Brick, stucco, frame, 2 stories, 25x34 feet, slate and tile roof, hardwood floors, electric light, tile work. Owners will build.

Cottage, Atlantic City, N. J. Architect, S. G. Dobbins, Segal Building, Atlantic City, N. J. Owner, Wade Hampton, Atlantic City, N. J. Stucco and brick, 1½ stories, 36x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Bank, Merchantville, N. J. Architect, J. C. Jefferis, 312 Market street, Camden, N. J. Owners, Merchantville Trust Co., care of architect. Steel, concrete, 1 and 2 stories, 67x61 feet, slag roof, hardwood and marble floors, steam heat, electric light, tile and marble work, vault doors, bronze work, ornamental iron work. Architect will be ready for bids this week.

Ventnor Pier and Auditorium (add.), Ventnor, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, City of Ventnor, care of architect. Frame, 1 story, 72x100 feet, 72x200 feet, tile roof, hardwood floors, electric light, tile work, metal partitions. Will be ready for bids March 1st.

Residence and Garage, Wildwood, N, J. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Frame, 2½ stories, shingle roof, pine floors, electric light. Architects will take bids in two weeks.

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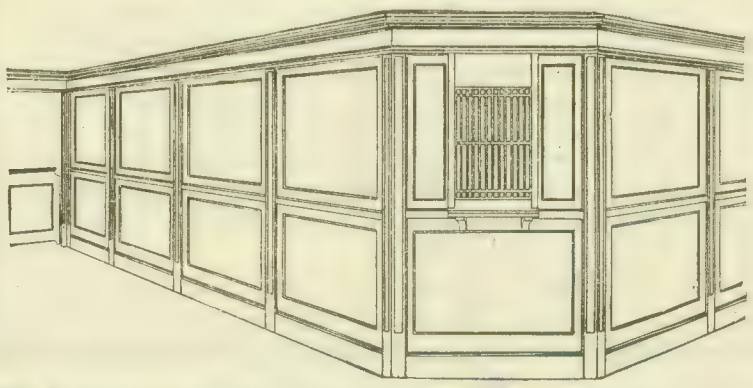
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Camden, N. J. Architects, Faile, Seelye & Co., 101 Park avenue, New York City. Owners, Mack International Motor Truck Co., Camden, N. J. Brick, steel, 1 story and basement, 190x252 feet, Johns Mansville roof, cement floors, roof ventilators, metal window guards, waterproofing and dampproofing, metal lath, rolled steel sash and skylights, ornamental iron work, area gratings, metal toilet partitions. Architects taking bids due March 2nd.

Office, Garage and Storage Building, Long Branch, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, American Poster Advertising Co., Trenton, N. J. Fireproof, 1 story, 50x105 feet, slag roof, wood and concrete floors. Owners taking bids due February 25th.

School (add.), 14 rooms and auditorium, Troy avenue, Ventnor, N. J. Architects, Stoudt & Reinbenach, Guarantee Trust Building, Atlantic City. Owners, Ventnor School Board, Miss Maulick, secretary, Ventnor, N. J. Brick, steel, 2 stories and basement, slag roof, maple and cement floors. Owners taking bids.

New Jersey Contracts Awarded

Bridges (2), Atlantic City, N. J. Owners, Board of Chosen Freeholders of Atlantic County, 741 Guarantee Trust Building, Atlantic City, N. J. Piling and timber bridges, over Thorofare, Atlantic City, N. J. Great Thorofare Bridge, $131,700, contract awarded to Eastern Eng. Co., Atlantic City, N. J. Weaver Thorofare Bridge, $143,900. Contract awarded to Michael Staub-Kolyn Const. Co., Trenton, N. J.

School, Paulsboro, N. J. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of Education, C. Myers, Paulsboro, N. J. Brick, reinforced concrete, cut stone, 2 stories and basement, 173x76 feet, composition roof, maple and cement floors, hollow tile, painting and glazing, roof ventilators, waterproofing and dampproofing, bond, kalamein doors, ornamental iron work (plumbing, heating, electric separate). Contract awarded George W. Shaner & Son, Palmyra, N. J., $128,279, $2,596. Plumbing, Harry Knecht, West Collingswood, N. J., $7,050. Electric, Charles S. Wright, Camden, N. J., $29,751, $225. Heating and ventilating, not awarded, held under advisement, Baldwin Ventilating Co., 1628 Ludlow street, Philadelphia, $12,257, $1,525.

Warehouse (add.), North Kentucky avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Kensington Carpet Co., Kentucky and Atlantic avenues, Atlantic City. Brick, steel, 4 stories, 34x100 feet, slag roof, pine floors, heating extension, electric light, steel sash, fire doors. Contract awarded to S. Dolinsky, 2 North Vermont avenue, Atlantic City, N. J.

Club House, Atlantic City, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Cosmopolitan Club, care of architect. Reinforced concrete, 4 stories, 90x97 feet, flat roof, rubberoid and hardwood floors, (2) elevators and dumb waiters, ornamental iron, iron stairs, skylights, tile and marble, steam heat, electric light. Contract awarded to J. Mathis & Son, Guarantee Trust Building, Atlantic City, N. J.

Store and Apartment (add. and alts.), Ventnor, N. J. Architect, D. A. Rosenstein, Guarantee Trust Building, Atlantic City. Owner, J. Knoell, 35 South Aberdeen avenue, Atlantic City, N. J. Brick, 2 stories, 44x36 feet, tile and slag roof, hardwood floors, hot water heat, electric light, tile work, copper work. Contract awarded to L. Ginsburg, 114 North Rhode Island avenue, Atlantic City, N. J.

Apartment, Memphis avenue, Atlantic City, N. J. Architect, S. G. Dobbin, Segal Building, Atlantic City, N. J. Owner, name withheld. Brick, 3 stories, 70x20 feet, slag roof, pine floors, hot water heat, electric light, tile work. Contract awarded to D. N. Reid, Ventnor Heights, N. J.

Store and Apartment, Cooper street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Dr. B. D. Levine, care of architect. Brick, steel, 3 stories, 40x29 feet, slag roof, pine and concrete floors, electric light. Contract awarded to S. Teitz, 742 Greenwood avenue, Trenton, N. J.

Miscellaneous Construction News

Hotel, Fort Meyers, Fla. Architects, Thomas, Martin & Kirkpatrick, Cunard Building, Philadelphia. Engineers, Day & Zimmerman, 1600 Walnut street, Philadelphia. Owners, Fort Meyers Community Hotel Corporation, Fort Meyers, Fla. Brick, steel, concrete, terra cotta, limestone, 11 stories, 200 rooms, electric light, tile and marble work, hardwood floors, elevators. Engineers taking sub-bids.

Community Center Building, Swimming Pool and Gymnasium, Wilmington, Del. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, Adas Kodesch, care of architect. Brick, steel, 4 stories, 74x109 feet, slag roof, hardwood floors, vapor oil burning heat, electric light, metal lath, tile and marble work, iron stairs, ornamental iron work. Plans in progress.

(Continued from Page 116)

Most authorities are agreed that the immense building shortage which accumulated during the recent world war and the depression immediately following its termination has, in the majority of instances, been made up. Therefore the pressure, which resulted in a determination to build at any cost, has been largely removed. Consequently the prospective builders of the future will be more concerned with costs than they were in the past.

It has been estimated that the normal building need of the country for obsolescence and new demands runs approximately $4,000,000,000 a year. To this figure there must be added the normal requirements of the population growth, which may be stated at about 2,000,000 persons annually.

An important factor which must be considered in analyzing the future trend of the industry is that American people in all walks of life are no longer satisfied with the standards of living which prevailed a decade ago, particularly as far as housing facilities are concerned. People are demanding better homes, office buildings, churches, theaters, etc. Equipment which a few years ago was considered a luxury is now looked upon as being a necessity.

Increased Land Values

Practically every city of any size is witnessing a well defined movement on the part of an ever increasing number of people to get away from the more congested areas to a semi-rural environment. This has been made possible by good roads and the universal use of the automobile as an efficient and rapid means of transportation. Thus is created an unprecedented demand for housing facilities in suburban communities.

Another important factor is obsolescence in buildings. On every hand buildings are being razed which a few years ago might have been considered as satisfactory. Obsolescence is being hastened in many instances on account of increased land values, owners realizing that the financial return from out of date structures is not commensurate with the value of the land on which they stand.

As stated above the pressure has been largely relieved, consequently the prospective builder of this year will have to exercise more care and be assured that the income from a new development will bear a definite ratio to construction costs.

Rents the country over are at fairly stable average level, the general tendency being downward rather than upward. Therefore this leaves as the principal determining factor in considering new projects the elements which enter into building costs represented largely by wages and building material prices.

The present intense activity in the construction industry which got under way in 1923 can be traced as in almost direct relation to the declining trend in the cost of building materials.

A study of the situation made recently by the National Industrial Conference Board shows that taking 1919 as a starting point prices of building materials rose nearly 50 per cent within twelve months, and building wages mounted to the highest point since the war.

Building Material Prices

Early in 1920 building materials began a rapid decline and by the middle of 1921 reached the lowest point of the 1919-1925 period. Building wages also took a slight drop during this time, but failed to reach the low level to which material prices fell. Stimulated by declining wage and material prices, building activity began to increase in 1921, rising in 1922 to a point approximately 30 per cent above the 1919 average. The real boom did not get under way, however, until 1923.

With the increased activity of 1923 building wages began to rise and they have been on the ascendency ever since. They are at the present time about 50 per cent above the 1919 level and ap-

proximately ten per cent higher than the level at the peak of the inflation period in 1920. The level of rates now is 133 per cent above the level of 1913, according to the United States Department of Labor, as compared to 124 per cent above a year ago, or an increase of nine per cent. In 1923 they were 107 per cent above 1913, and the level in 1922 was 97 per cent above, showing the steady advance which has been made in labor costs during the past few years.

Just the reverse condition exists as regards building material prices. At the close of 1925 these were about 14 per cent lower than they were in 1919. Furthermore, material prices have remained fairly well stablized during the three-year period since 1923, and give every indication that there will be but little price variation this year.

Resist Wage Increases

It is generally believed that any further wage increases will be resented by the building public with the inevitable result that the year 1926, instead of being another six billion dollar year in the construction industry will fall far short of that mark. On the other hand there is every reason to believe that if present prices can be maintained there is sufficient business in prospect to put the present year on a par with 1925.

This was the conclusion reached at the recent conference in Chicago held under the auspices of the National Association of Building Trades Employers, which was attended by representative contractors from practically all sections of the country. Without exception these men gave voice to the thought that the building public is of the opinion that the peak has been reached and that any further increases in construction costs will tend to have a depressing effect on the industry in general.

In a number of cities contractors have been confronted with demands which, if granted, will materially raise the cost of construction. A concerted effort is being put forth throughout the country by contractors to resist any and all demands for increases this year.

Five Day Week

Demands for the five day week have been made by some few trades in a number of the larger cities. Such demands are looked upon by employers as being unsound and uneconomic. They see in these requests for a shorter working week an attempt on the part of organized labor to create an artificial labor shortage which will result in increasing construction costs still further.

Since the building industry gives employment directly to a vast number of workers and indirectly to an equal number of others engaged in the production and transportation of building materials it is evident that any tampering with the machinery at this time will cause a reaction in the entire business structure of the country.

Labor leaders who insist on getting increases this year will not be in sympathy with the era of prosperity which the country is enjoying and furthermore will be acting in direct opposition to the best interests of both the organized and unorganized workers in all branches of industry.—The American Contractor.

CODES REQUIRE METAL LATH FOR PROTECTION AGAINST FIRE

Fire Prevention through unprecented activity in matters pertaining to building code revision has been marked within the past two or three years. New light on the subject of code requirements, which will insure safety to life and property, has been thrown on the subject by fire tests made by well-known laboratories, and by the activities of the Hoover Building Code Committee which promulgated the now well-know Hoover Code for small dwelling house construction.

On the one hand there has been a tendency to lessen the strength requirements for materials used in building construction, such for instance, as the brick walls used for dwelling houses, and to decrease floor load requirements. On the other hand, there has been an equally marked tendency towards requiring greater safeguards for the occupants of buildings. These have been put into effect by prohibiting the use of combustible lath and by requiring metal lath for many types of buildings, especially those used for dwellings in this class, next come flat buildings, tenements, apartment houses and small hotels. This requirement at the same time harmonizes with the general thought to reduce cost of buildings, inasmuch as economical one-hour protective construction is much less expensive than the heretofore required so-called full fire-proof construction.

All of these factors have conduced toward a fuller consideration of code requirements, and code changes which in previous years could be skipped over or slighted and pass legislative bodies without comment, have been fully considered, argued and thrashed out, so that they are now fully understood not only by the code committees directly involved, but also by nearly every intelligent citizen in the community.

The one-hour rating accorded by the Underwriters' Laboratories to Metal Lath protected wood studs and wood joisted floors has come to receive the earnest consideration of many building code committees. This has been conclusively shown by a study of codes which have been passed within the last year or two, and for the reader's information we quote herein some of the provisions relative to metal lath which have been adopted in codes throughout the country.

New Bedford, Mass.—This is one of the largest cities in the state and has within the last year adopted a new building code in which Class "E" buildings are defined to consist of stores on the first floor, with apartments and dwellings above. "Buildings of this class, shall have the cellar or basement ceiling metal lathed and plastered . . . or the floor over the basement ceiling may be first-class construction. Note that this places the economy of the one-hour rating construction—lumber and metal lath—at the disposal of the builder, where otherwise it would be necessary for him to use the more expensive reinforced concrete or similar materials for the first floor. There is a further requirement in this code that "in all buildings in classes F and H (apartment houses, hotels, etc.) unless of first-class construction, the entire cellar or basement ceiling shall be metal lath and plaster."

The New Bedford Code, which is taken as typical, further recognizes the value of metal lath protected construction in apartment buildings by the following provisions:

"In all buildings in Class "I" (tenement houses, etc.) in which there is a separate apartment above the second story and also in all buildings in Class "H" (apartment buildings, etc.) that stairs from the cellar or basement to the floor next above shall be enclosed with walls constructed either of 8″ brick, 6″ terra cotta, etc., etc., . . . the soffits of all stairs, the underside of all landings, and the stair side of all partitions except external walls, in all stairways and stair halls, shall be metal lathed and plastered. A wood wainscoting may be used in such stairways and such stair halls, provided it is not over four feet high and metal lathed and plastered down to the floor lines or to the stair stringers."

"All ceilings in hospitals, nurseries and schools in Class 'B' and all ceilings in stores in classes 'E' and 'F' shall be covered with metal lath and plaster.

"All ceilings in building Class 'B' not included in paragraph 'A' and all ceilings in office and store buildings, in Class 'D,' shall be covered with metal lath and plaster.

Reference Directory for Architects, Builders and Owners

ACCOUNTANT.
R. Landergin.....5523 Hadfield St., Phila.

ARCHITECTURAL IRON WORK
Quaker City Art Metal Works,
2445 N. Second St., Phila.

ARTESIAN WELLS.
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S. W. Cor. 22nd and Cambria Sts., Phila.

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BOILER AND PIPE COVERINGS.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.

BRICK (Face, Common, Paving).
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.
Joseph Rotornado.....4740 Milnor St., Phila.

BUILDING BLOCKS.
Victor Concrete Products Co.,
Primos Station, Del. Co., Pa.

BUILDERS' SUPPLIES.
Service Supply Corporation,
20th and Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
Huskey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
Vineland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
The Van Sciver Corporation.
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
D'Lauro, John .....55 E. Mermaid Lane, Phila.
Harsch, Wm. F. .....Narberth, Pa.
Hassiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

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Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE SEWER PIPE.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila

CONCRETE WORK.
Harsch, Wm. F. .....Narberth, Pa.
Hassiah, Frederick.. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
Devitt, Paul J. .....1101 S. 2nd St., Phila.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation,
20th and Venango Sts., Phila.

CORK FLOORING
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

CURTIS WOODWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
Building News Pub. Co. ...1530 Chestnut St., Phila.

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Anti-Hydro Waterproofing Co.,
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Barnett Bingswanger.....829 N. 3rd St., Phila.
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Truscon Laboratories.....1505 Race St., Phila.

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McCarrick Bros.....3240 N. Fox St., Phila.
Sanitary Engineering Co.....40 S. 52nd St., Phila.

FENCES.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Potts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St,. Phila.

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Mortgage Extension Corp.,.1011 Chestnut St., Phila.

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H. E. Lingo & Son .....Camden, N. J.

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Concrete Waterproof Paint Co...829 N. 3rd St., Phila.
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Hamilton Rubber Mfg. Co. ..2313 Walnut St., Phila.

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Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

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Clausen, Wm. H. .....27th and Diamond Sts., Phila.

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Cox, Abram, Stove Co., .American and Dauphin Sts.
Fleck Bros. .....44 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.

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Abram Cox Stove Co.,
American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
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Richardson & Boynton Co. .....1308 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

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Harsch, Wm. F. .....Narberth, Pa.

GRANITE
John Meehan & Son.....916 W. Dakota St., Phila.
Vineland Architectural Cast Stone Works,
Vineland, N. J.

HARDWARE (Builders').
Devitt, Paul J. .....1101 S. 2nd St., Phila.

HAULING CONTRACTORS.
McCarrick Bros.....3240 N. Fox St., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....7038 Gray's Ave., Phila.

HEATING BOILERS.
Cox, Abram, Stove Co.,
American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.

HOLLOW TILE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

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Edwin Elliot & Co. .....1011 Chestnut St., Phila.

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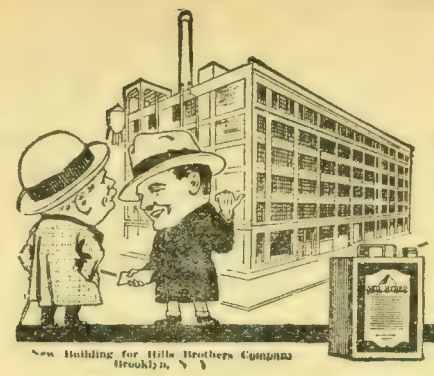
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 9
March 3, 1926

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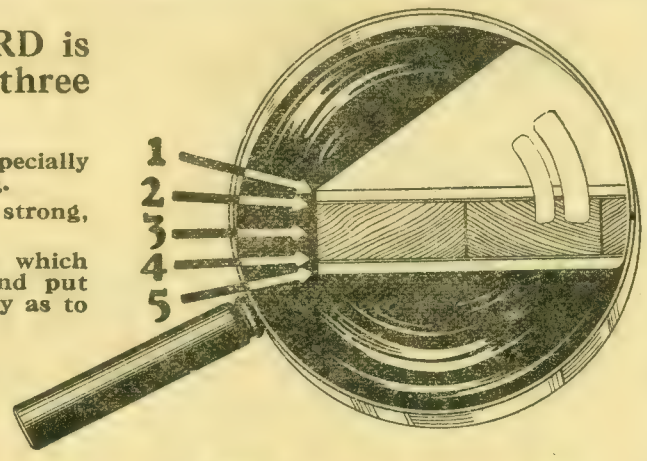
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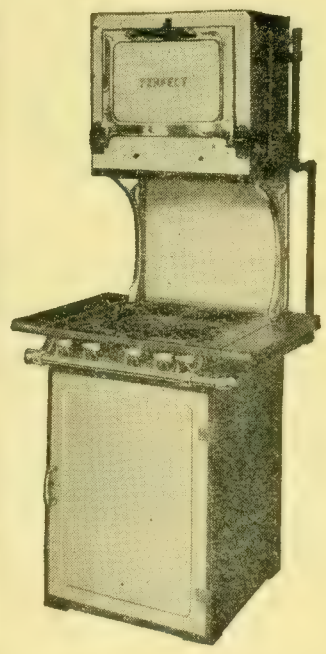
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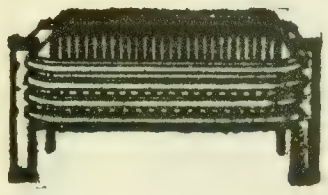
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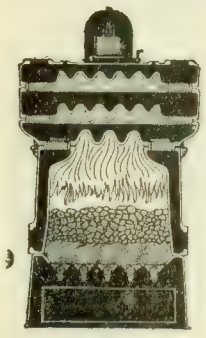
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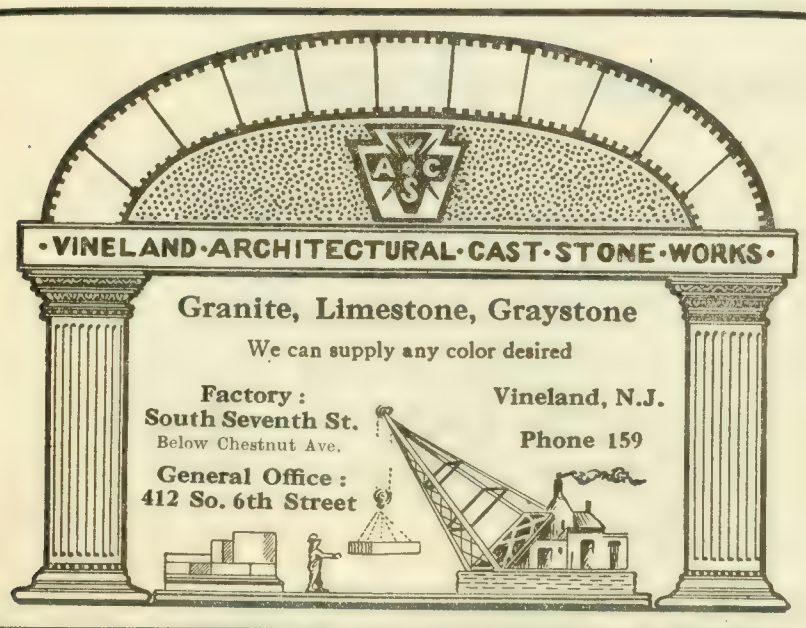
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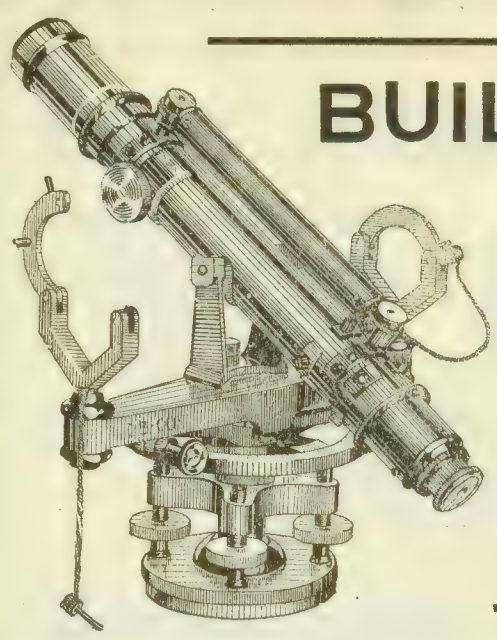
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 9

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March 3, 1926

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As The Editor Sees It

FIFTY WAYS TO LOWER HOME BUILING COSTS

By Robert T. Jones, A. I. A.

Technical Director The Architects' Small House Service Bureau of the United States

There are only two ways to erect your home at less expense. The first is to get a contractor who will agree to build your home as you want it, without reducing qualities, at a lower price. The second is to reduce your requirements, to take less than you want, both as to quality and quantity. These are the only ways to reduce costs. Your home will cost more or less, depending upon what sort of a bargain you can drive with the man who builds it, and the qualities of materials you use and to what extent your home is completed.

Probably the oldest way to get lower prices for what you want is to bargain for them. In building this is done by taking bids. Contractors compete with each other for the privilege and profit of building your house. If good contractors are selected for this purpose, everyone of whom is competent to build a good house, this method is a wise and fair one to follow. Then the comparison of prices is drawn between like things and it is safe to rely on the low bid. But competition between high grade contractors and cheap contractors often puts the former in a position of disadvantage. They cannot compete with the low prices quoted by the cheap contractors because they will not do the grade of work that satisfies the cheap contractors. Since you also do not want that kind of work, estimates should not be taken from poor contractors. We do not propose that you lower costs of building by substituting inferior qualities of workmanship or materials, for that would not be true economy.

There are many contractors on whose estimates the architect would rely implicitly, without attempting to get competitive bids at all, but there is no doubt that lower prices can often be obtained by bargaining.

All this is on the presumption that you will have one general contractor in charge of the building of your hourse. We believe this is the most satisfactory method for small home builders. You make your contractor responsible for turning over to you a completed building in acceptable condition. He not only provides for completing the actual building, but may be made responsible also for the heating, plumbing, electric wiring, and electric fixtures, though some money can be saved by sub-letting contracts for these last items. If sub-contracts are given to separate contractors, choose them with the same care that you would exercise in selecting the general contractor.

Some builders have tried the expedient of eliminating the general contractor altogether and letting all the various parts of the work to sub-contractors. By this method the owner becomes his own general contractor. He must make the sub-contractors accountable to him. He must synchonize the different parts of the work, get the various sub-contractors on the job at the proper time, adjust differences, buy materials, pay for mistakes he makes, spend an amazing amount of time on the job. This is generally not a good method unless the home builder is unusually familiar with the buying of materials and the direction of labor, and is able to solve the many problems that arise in building. This scheme of building eliminates with the general

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contractor all of his skill, judgment, and experience. which are worth a great deal. When the owner assumes these responsibilities he also assumes the liabilities that go with them. Let me repeat that we do not think it wise to dispense with the general contractor unless the owner is widely experienced in building.

Suppose then you have taken bids, compared what the contractors and sub-contractors have to offer, picked the best ones, quality and price considered, and the money they require to build the house the way the specifications and drawings call for it, **giving you just what you want,** is $1,000 too high? What can be done? To the solution of this problem can be applied the second method of reducing cost. You can eliminate certain items. You can cut down the qualities.

Beyond a certain minimum limit almost any sum can be paid for a small house. Take for example one of the Bureau's designs for a small Colonial house. This house has been built many times during the past three years in many different cities. The complete building costs have ranged between $6,500 and $10,000. While these variations in cost have been due to some extent to the differences in cost of materials and labor in different sections of the country and to the varying profits taken by the contractors, an equally important factor in determining the costs were the requirements of the owners.

The $6,500 home is not essentially inferior to the $10,000 home in so far as durability, appearance, and real comfort are concerned. There might have been this difference in cost between similar houses erected side by side by the same contractor. Then the extra cost of the $10,000 house would mean that some home builder had required high priced furnishings and full equipment, and had had to pay for them.

What the Contractor Must Know

The first essential to a program of reducing the contractor's bid is to know what the drawings and specifications call for. Go over the drawings with great care. Be sure you know what is required. Then eliminate what you do not need—partitions in the basement or attic, porches, fireplace, excess millwork. Get down to the basic facts.

Then you must study the specifications. Almost every clause of this document charges you with a liability to pay. For example, floors may be of oak, pine, maple, or other material. And if of oak, then which one of the five different grades? With your architect or contractor to help you, you must decide, and with your decision will go certain increases or reductions in total expense.

You do not require warning not to attempt to save money at the cost of sound methods of construction or to use materials of a quality too low for durability. That would be fatal, and this story does not advocate such a course. But there are things about the house that you can do without for the time being at least. Certainly also for the sake of owning your own home you can get along with some of the more democratic materials and finishes—the middle grades—durable but not luxurious materials.

The following list is composed of suggestions for keeping down costs. Please remember that the values we give are only approximate. You will have to verify them in your local market, as they will vary in different localities. The figures we give are presumed to be average and could ordinarily be anticipated in building a small house of two stories of about 750 square feet ground area.

(Continued on page 142)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Office Building, Duncan and Sepviva, Church and Aramingo avenue, Philadelphia. Architect, private plans. Owners, Montgomery Iron & Steel Co., W. Nelson Mayhew, 918 Berks street. Brick, steel, caststone, 2 stories, 50x50 feet, slag roof, gas steam heat, electric light, slag roof, concrete and maple floors, plumbing, rolled steel and wood sash. Plans in progress.

Supplies, Philadelphia. Owners, Department of Public Safety, 215 City Hall, Philadelphia. Owners taking bids due March 15th noon. Cable, fire alarm boxes, etc. Certified check 5 per cent. of bid.

Residences (36), Sanger street, Cheltenham avenue and Sylvester street. Architect, private plans. Owners, Baurele & Nace, 227 Lindley avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (12), Sixty-sixth and Elmwood avenue, Philadelphia. Architect, private plans. Owners, Sindoni & Polito, 2001 South Norwood street, Philadelphia. Brck, 2 and 1 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Synagogue and School, 25 West Rittenhouse street, Germantown, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owners, Congregation Chavos Chesed, care of architect. Stone, brick, steel, 2 stories and basement, 26x102 feet, slag roof, maple floors, steam heat, electric light, metal lath, tlie and marble work, hollow metal skylights, bond, ornamental iron work, iron stairs, metal ceilings, waterproofing and dampproofing, caststone. Revised plans in progress.

Residence and Garage, Cheltenham road, Willow Grove and Paper Mill road, Chestnut Hilll, Pa. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owner, Clarence M. Brown, Land Title Building. Work contemplated in 1927. Too early for details.

Shop Building, Duncan, Sepviva, Church and Aramingo avenue, Philadelphia. Architect, private plans. Owners, Montgomery Iron & Steel Co., W. Nelson Mayhew, 918 Berks street. Corrugated iron and steel, 1 story, 160x526 feet, rolled steel sash. Plans in progress. Too early for details.

Bridges, Philadelphia. Owners, City of Philadelphia. Benjamin Franklin Bridge, Powelton avenue across Schuylkill. Parkway Bridge, carrying proposed Pennsylvania Boulevard Line of Filbert street to Pennsylvania Plaza at Thirtieth street. Trolley Bridge, $500,000, to replace Market street trolley and elevated structure. Train Bridge, Pennsylvania Terminal to East Bank. Penrose Ferry Bridge, $1,000,000. Alterations to bridges, Market street, Chestnut street, Walnut street, Spring Garden street, Philadelphia. Work contemplated. Plans in progress.

Factory Building, A and Courtland streets, Philadelphia. Architect, E. A. Wightman, Bankers' Trust Building, Philadelphia. Owners, Concordia Silk Hosiery Co., on premises. Brick, steel, iron, 2 stories and basement, 100x100 feet, slag roof, concrete floors, fireproof partitions, elevators, plumbing, sprinkler vacuum heat, oil burning, electric light, rolled steel sash, hollow metal doors, dampproofing. Plans about completed. Architect readv for general bids in a few days.

Club House (add.), 2806 East Allegheny avenue, Philadelphia. Architect, Sigmund Laschinski, 1220 Locust street, Philadelphia. Owners, Polish-American Association, M. Bednarek, care of architect. Brick, steel, 2 stories and basement, 50x160 feet, slag roof, cement, pine and linoleum floors, steam heat, electric light, metal lath, tile and marble work, iron stairs, ornamental iron work. Architect taking bids due March 4th.

Oxford Sub-Station, Northeast Corner Nineteenth and Oxford streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., W. C. L. Eglin, vice-president and chief engineer, Tenth and Chestnut streets. Brick, cut stone, reinforced concrete, steel, 1 story and basement, 100x0 feet, 19x15 feet, slag roof, cement floors, steam heat (electric work reserved), cement floors, plumbing, waterproofing, metal lath, tile and marble work, hollow metal doors, bond. Architect taking bids due March 9th.

Pennsylvania State Building, Northwest Corner Broad and Pattison streets, Philadelphia. Architect, Ralph B. Bencker, Bellvue Court Building, Philadelphia. Owners, Commonwealth of Pennsylvania, Sesqui-Centennial Commission, care of Harry J. Baxter, 926 Widener Building, Philadelphia. Metal lath, stucco, steel, 1 story, 333x224 feet, open court, 150x133 feet, built-up roof, pine floors, metal lath, rolled steel sash, bond, ornamental iron work, integral waterproofing, ornamental plaster, metal toilet partitions, moving picture booth, colored cement fountains, ornamental tile (plumbing, electric work, finished grading, sidewalks, paving, curbing, piling and fill reserved). Owners taking bids due March 4th noon.

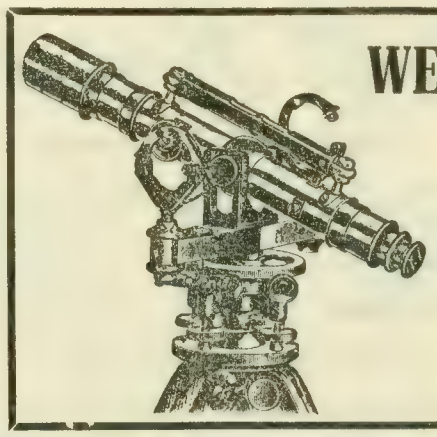
Stores and Offices, 124 South Eleventh street, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, H. White, Esq., care of architect. Brick, cut stone, steel, 4 stories and basement, 20x88 feet, slag roof, maple floors, painting and glazing, plumbing, architectural terra cotta, steam heat, electric light, tile work, metal lath, rolled steel sash, galvanized iron skylights, rolling steel doors, bond, ornamental iron work, elevator. Architects taking bids due March 11th.

Residence and Garage, Bell's Mill road, Germantown and Stenton avenues, Chestnut Hill. Architects, Willing, Sims & Talbutt, 123 South Eighteenth street, Philadelphia. Owner, Beauveau Borie, Jr., 1517 Locust street, Philadelphia. Hollow tile and stucco, cut stone, 2½ stories and basement, 65x24 feet, wing 41x18 feet, tile roof, oak and pine and cement floors, hollow tile, painting and glazing, metal lath, tile work, bond, ornamental iron work, waterproofing, patented building blocks, limestone, flagstone, iron gratings, linoleum floors. Architects taking bids due March 8th.

Manufacturing Building (add.), Eleventh and Brandywine streets, Philadelphia. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Edwin J. Schoettle Co., J. C. Bayne, secretary, 533 North Eleventh street, Philadelphia. Reinforced concrete, brick, steel, 9 stories and basement, 52x64 feet, wing 18x36 feet (plumbing, mechanical plant, sprinklers reserved), electric light, Barrett Specification roof, cement and wood block floors, architectural terra cotta, ornamental iron work, floor hardener, bond, hollow metal doors, hollow metal sash, precast stone, bluestone. Architect taking bids due March 5th.

Sesqui-Centennial Building, Philadelphia. Architect, Clarence R. Hope, DuPont Build-

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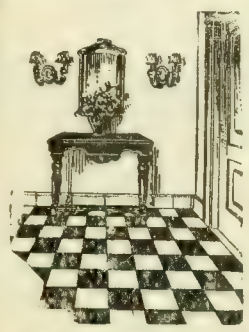
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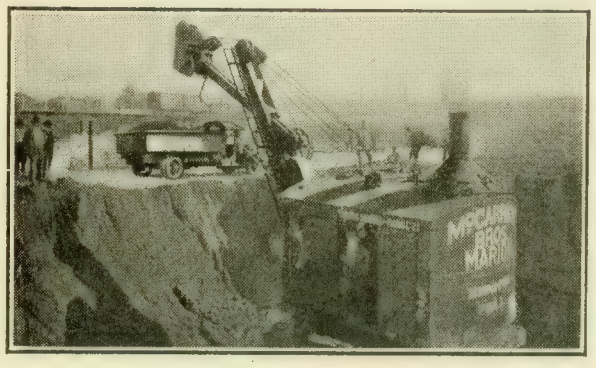
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Bottling House (add.), Southeast Corner Second and Edwards streets, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, G. Schmidt & Sons, Inc., on premises. Brick, concrete, cut stone, 2 stories, mezzanine and basement, 176x107 feet (plumbing, heating, electric, sprinkler reserved), slag roof, cement floors, hollow tile, shoring, waterproofing, architectural terra cotta, rolled steel sash and skylights, rolling steel and kalamein doors, bond, floor hardener, iron stairs, ornamental iron work, granite block paving, elevator doors, metal lockers. Architect taking bids due March 4th.

New Store Building, 919-23 Market street, Philadelphia. Architect, Construction Department, J. G. McCrory, 1107 Broadway, New York. Owners, J. G. McCrory Co., 1107 Broadway, New York City. Reinforced concrete, brick, steel, 6 stories and basement, 50x125 feet (plumbing, heating and electric reserved), slag roof, cement and pine floors, metal lath, tile work, rolled steel sash, bond, ornamental iron work, architectural terra cotta. Architects taking bids due March 7th.

Residences (16), Wakeling, Charles and Valley streets, Philadelphia, $57,300. Architect, private plans. Owners, Miller & Gellman, Charles and Wakeling streets, Philadelphia. Brick, 2 stories, (16) 16x32 feet, (1) 15x42 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (16), Conshohocken avenue, West of Belmont avenue, Philadelphia. Architect, private plans. Owner, John A. McClatchey, Sixty-ninth and Chestnut streets, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Warehouse and Garage, Thirty-first street, North of Gray's avenue, Philadelphia, $19,500. Architect, private plans. Owners, Pure Oil Co., Columbus, Ohio. Brick, 2 stories, 40x80 feet, garag,e 1 story, 90x30 feet, slag roof, cement floors, electric light. Permit granted.

Storage Building (add.), 8301 Torresdale avenue, Philadelphia, $4,000. Architect, private plans. Owners, Precision Grinding Co., on premises. Iron, story add., 30x140 feet. Permit granted.

Residences (2), 8705-07 Tinicum avenue, Philadelphia, $4,000 each. Architect, private plans. Owner, Joseph J. Herman, 8701 Tinicum avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (2), West side Edgemont street, North of Westmoreland, $4,000 each. Architect, private plans. Owner, Walter Rybas, 3620 Richmond street, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Sewer Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Low bidders: Atlantic street, Gaul to Miller; A. Mattio, 210 North Fifty-sixth street, Philadelphia, $15,718.26. Cheltenham avenue, Frontenac street to Lorretto; Joseph Moss, 1652 Wakeling street, Philadelphia, $4,772.81. Cottman street, Rowland avenue to Sacket street; N. McIntyre Const. Co., 6811 North McCallum street, $12,-014.21. Millick street, Gibson to Eastwick; Di Maio Brothers, 817 South Hutchinson street, $5,664.48. Erdrick street, Hartel to Lansing street; A. Mattio, 210 North Fifty-sixth street, Philadelphia, $24,483.15. Forty-fifth street, Sansom to Walnut streets; A. Perna & Son, 752 South Tenth street, $3,-169.50. Fifty-eighth street, Gibson avenue to Elmwood avenue; McIntyre Const. Co., 6811 North McCallum street, Philadelphia, $4,-490.56. Markland, Hunting Park to Lycoming; A. Di Sandro & Son, 3906 North Fifth street, Philadelphia, $8,999. Millick street, Gibson to Eastwick avenue; Di Maio Brothers, 817 South Hutchinson street, Philadelphia, $5,272.54. N street and Lycoming; Fred T. Buckius, Kensington and Deal streets, $24,895. Pickwick street, Thompson to Salmon street; A. Mattio, 210 North Fifty-sixth street, $3,846.31. Silverwood, Fountain to Delmar street; A. Frunzi, 513 High street, Philadelphia, $14,064. Spangler street, Allegheny to Clearfield streets; De Maio Brothers, 817 South Hutchinson street, Philadelphia, $9,068.94. Theodore, Sixty-ninth to Seventieth street; A. Perna & Son, 752 South Tenth street, Philadelphia, $5,829.70. Van Kirk, from Lorretto to Oxford street; P. Pinchotti, care of owner, $22,073. Schedule B—Main Sewers: Sanger, Torresdale to Cottage street; O'Neill Co., 127 East Mermaid lane, Philadelphia, $27,813.50. Aramingo avenue, Tioga to Venango street; C. Centone, Bailey Building, Philadelphia, $39,989.05. Schedule C—Acchione & Canuso, 804 South Twelfth street, $66,262. Sewers and Pumping Station, South Packer avenue; Acchione & Canuso, 804 South Twelfth street, $37,305.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Boiler House, Northwest Corner Orthodox and Large streets, Philadelphia, $16,000. Owners, La France Textile Co., 4423 Frankford avenue, Philadelphia. Brick, 1 story, 50x50 feet. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Furnish and install electric pumping equipment in Torresdale Pumping Station, awarded to Acme Machine Co., 316 North Seventeenth street, Philadelphia, $123,306. Switchboard wiring and electrical equipment, Torresdale Pumping Station, H. Mayer Co., 103 Walnut street, Philadelphia, $72,000.

Storage Warehouse, 237-53 Church Lane, Germantown, Philadelphia. Architect, George S. Kingsley, 1452 Broadway, New York. Owners, Wallace Storage & Carpet Cleaning Co., 1823 North Twentieth street, Philadelphia. Reinforced concrete, brick, 6 stories and basement, 75x120 feet, slag roof, concrete floors, hollow tile, elevators, plumbing, metal window guards, metal ceilings, waterproofing, architectural terra cotta, ornamental iron work, bond, hollow metal doors, galvanized iron skylights, hollow metal sash, marble and terrazzo work, metal lath, electric light, steam heat, caen stone, metal toilet partitions. Contract awarded White Const. Co., Jefferson Building, Philadelphia.

Church, Fifty-ninth and Spruce streets, Philadelphia, $153,000. rchitect, J. Edgar Williams, 213 East Fortieth street, New York City. Owners, Tabernacle Lutheran Church, Rev. W. L. Miller, 6123 Christian street, Philadelphia. Stone, 1½ stories, 95x60 feet, slag roof, maple and cement floors, steam heat, electric light. Contract awarded E. J. Kreitzburg, 1333 Arch street, Philadelphia.

Store and Residence (add. and alts.), 4138 Market street, $3,150. Architect, private plans. Owner, Sam Simon, on premises. Brick, 1 story add., 40x21 feet, general alterations. Contract awarded to Abe Altman, 324 East Eleanor street, Philadelphia.

Store and Residence, 1422 North Second street, Philadelphia, $2,150. Architect, private plans. Owner, John Murphy, 1422 North Second street, Philadelphia. General alterations. Contract awarded to John Schwartzer, 2764 Emerald street, Philadelphia.

Warehouse (alts.), Cuthbert street, West of Fifth street, $2,000. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Philip Cass Co., 40 North Fifth street, Philadelphia. Brick work, carpentry, mill work, fire doors, painting. Contract awarded to J. S. Rogers Co., Drexel Building, Philadelphia.

Factory (alts.), 1238 North American street, Philadelphia, $11,000. Owners, M. Rice Co., 1220 Spring Garden street, Philadelphia. General alterations. Contract awarded to J. L. Fawley Co., 1615 Spruce street, Philadelphia.

Dance Hall (alts.), 1710-12-14 North Broad street, Philadelphia, $6,000. Architect, private plans. Owners, Friedman & Perlman, 251 South Fifteenth street, Philadelphia. General alterations. Contract awarded to P. M. Sax, Penfield Building, Philadelphia.

Store Building (alts.), 108 Chestnut street, Philadelphia, $5,000. Architect, private plans. Owner, Edward S. De Long, on premises. General alterations. Contract awarded to W. H. Eddleman & Son, 453 Green Lane, Philadelphia.

Residence, North side Hunting Park avenue, West of K stret, Philadelphia, $4,500. Architect, private plans. Owner, William B. Hazel, Jr., on premises. Brick, 2 stories, 20x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to William Hibbett, care of owner.

Store and Residence (add.), 6226 Belfield avenue, Philadelphia, $3,500. Architect, private plans. Owner, E. P. Fetterolf, on premises. Brick, 1 story add., 16x32 feet, slag roof, pine floors, electric work. Contract awarded to S. Harting & Sons, 20 East Johnson street, Philadelphia.

Warehouse (alts.), 722-24 South Swanson street, Philadelphia, $3,000. Architect, private plans. Owners, Loos & Dilworth, Inc., on premises. General alterations. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

Residence (alts. and add.), 6708 Chew street, Philadelphia, $3,000. Architect, private plans. Owner, Warren Armstrong, on premises. Cinder block, 1 story add., 11x13 feet, general alterations. Contract awarded to Samuel Harting & Sons, 20 East Johnson street.

Store and Storage (add.), 1761 St. Paul street, Philadelphia, $2,500. Architect, private plans. Owner, Patrick Reardon, 1759 St. Paul street, Philadelphia. Brick, 1 story add., 32 feet x irregular, slag roof. Contract awarded to Frank Radomski, 4329 North Sixteenth street, Philadelphia.

Store and Residence (add.), 537 North Sixty-third street, Philadelphia, $2,000. Architect, private plans. Owner, Louis Russo, Northeast Corner Sixty-second and Girard avenue, Phila-

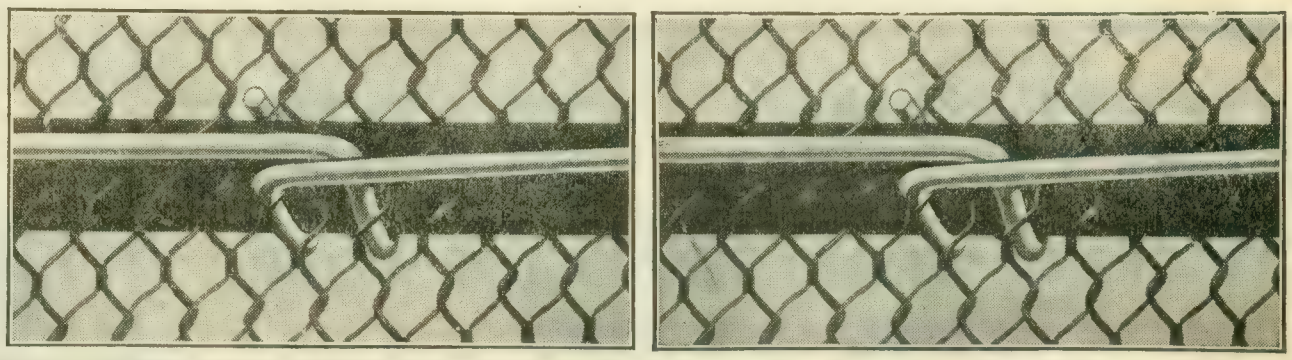
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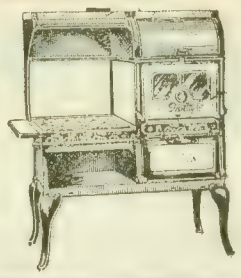
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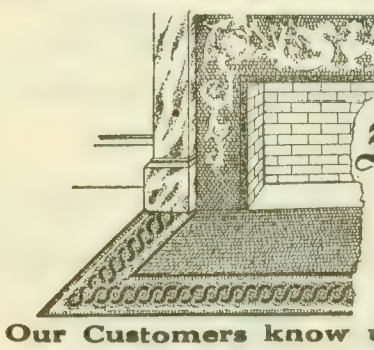


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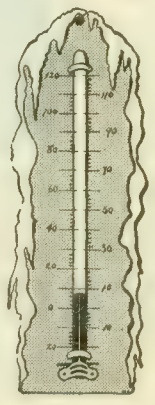
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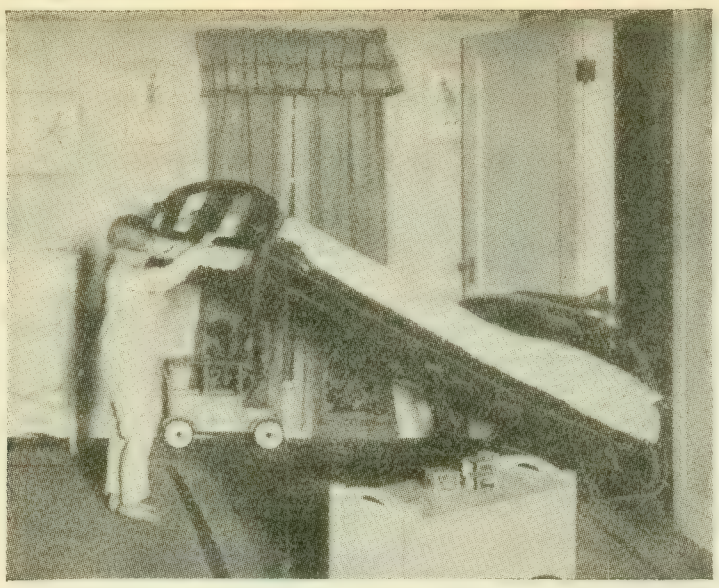


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delphia. General alterations and addition. Contract awarded to John Spaltro, 105 North Sixty-third street, Philadelphia.

Machine Shop, West side Hope street, North of Tusculum street, Philadelphia, $12,000. Architect, private plans. Owners, Peco Mfg. Co., on premises. Brick, 2 stories, 57x50 feet, slag roof, cement floors, electric work. Contract awarded to John N. Gill Const. Co., 121 North Broad street, Philadelphia.

Residence (add. and alts.), 1830 Delancey street, Philadelphia, $12,000. Architect, private plans. Owner, Mrs. John B. Deaver, 1634 Walnut street, Philadelphia. Brick, 2 stories add., 17x22 feet, general alterations. Contract awarded to C. H. Wills & Son, 124 South Thirty-sixth street, Philadelphia.

Church (add.), 46 West Logan street, Philadelphia, $4,500. Architect, private plans. Owners, St. Francis of Assissi Roman Catholic Church, on premises. Fire escape. Contract awarded to Logan Co., Louisville, Ky.

Hospital (add.), West side Forty-ninth street, South of Dauphin street, $3,000. Architect, private plans. Owners, Christ Church Hospital, Forty-ninth and Belmont avenue, Philadelphia. Fire escapes. Contract awarded to Logan & Co., Louisville, Ky.

Storage Building, rear of 129 Catharine street, Philadelphia, $3,000. Architect, private plans. Owners, Hess Mfg. Co., 129 Catharine street, Philadelphia. Brick, 2 stories, 26x35 feet 11 inches, slag roof, electric lighting. Contract awarded to Charles S. Bannett, 1633 South Fifty-ninth street, Philadelphia.

Store (alts.), 1340 Chestnut street, Philadelphia, $3,000. Architect, private plans. Owners, Real Estate Trust Co., Broad and Chestnut streets, Philadelphia. General alterations. Contract awarded to William Steele & Sons Co., 219 North Broad street, Philadelphia.

Store Building, 911 South Ninth street, Philadelphia, $10,875. Architect, private plans. Owner, Antonio Granmore, 947 South Ninth street, Philadelphia. Brick, 3 stories, 19 feet 6 inches x 18 feet, 12 feet 6 inches x 35 feet, slag roof, pine floors, electric light. Contract awarded to Scurci & Macrame, 732 South Seventh street, Philadelphia.

Manufacturing Building (add.), Southwest Corner Sixteenth and Hunting Park avenue, $4,350. Architect, private plans. Owners, Bellevue Worsted Mills, on premises. Steel tank. Contract awarded to Pittsburgh-Des Moines Steel Co., 50 Church street, New York.

Shed, East side Sixth street, North of Erie avenue, Philadelphia, $2,800. Architect, private plans. Owners, C. H. Boley Co., 3722 Randolph street, Philadelphia. Brick and frame, 1 story, 60x40 feet. Contract awarded to George R. Stinger, 551 Besbee street, Philadelphia.

Garage and Shed, 740 West Nedro avenue, Philadelphia, $2,600. Architect, private plans. Owner, Frank Miller, 715 Nedro avenue, Philadelphia. Brick, 1 story, 21 feet 3 inches x 87 feet, slag roof, cement floors. Contract awarded to Northern Const. Co., 5302 North Fifth street.

Restaurant (alts.), Southeast Corner Nineteenth and Market streets, $2,200. Architect, private plans. Owners, Southwestern Market Co., Nineteenth and Market streets, Philadelphia. General alterations. Contract awarded to J. M. Lingo, 1929 Filbert street, Philadelphia.

Pennsylvania Construction News

Church, Hope and Charles streets, Coatesville, Pa Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Joseph's Roman Catholic Church, Coatesville, Pa. Stone, brick, 1 story and basement, 45x83 feet, slate roof. Architect taking bids due March 18th at noon.

Residence (alts.), Bryn Mawr, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owners, Dr. Jacobs, care of architect. Architect taking bids on refrigerating equipment due as soon as possible.

Hospital Building, Elizabethtown, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, State of Pennsylvania, Dr. C. Minor, Capitol Building, Harrisburg, Pa. Stone, brick, 3 stories. Plans in progress.

Nurses' Home, Contract Tract, Lansdowne avenue, Upper Darby. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Delaware County Hospital, Dr. T. Clawson, Beswick, Upper Darby, Pa. Brick, stone, steel, 2 or 3 stories. Preliminary plans in progress.

Residences and Garages (4), Simpson Tract, Indian Creek, Overbrook. Architect, Charles T. North, 1711 Sansom street, Philadelphia. Owner, Paul H. Stull, Morris Building, Philadelphia. Preliminary sketches being drawn. Too early for details.

Residence, Bristol, Pa. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 20x40 feet, slate roof, hardwood floors, electric light. Plans in progress. Details undecided.

Residence, York, Pa. Architect, E. D. Leber, Hay Building, York, Pa. Owner, A. F. Fix, 807 South George street, York, Pa. Stone, 2½ stories, 47x32 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

Residence, Allentown, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, Dr. Hope Ritter, Allentown, Pa. Brick, 3 stories, 70x90 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

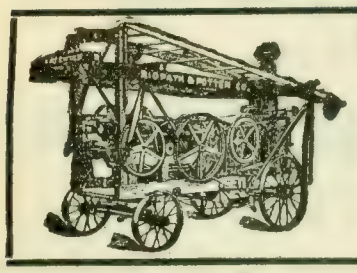
Bank Building, West Chester pike and Copely road, Upper Darby, Pa. Owners, Media Title & Trust Co., F. V. Rhoads, president, Media, Pa. Work contemplated.

Pavilion, Topton, Pa. Architects, Scholl & Richardson, Fifth and Walnut streets, Reading, Pa. Owners, Topton Lutheran Orphans' Home, Rev. C. Henry, Topton, Pa. Steel and frame, 1 story, 130x200 feet. Plans in progress.

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School and Hall, Steelton, Pa., $60,000. Architect. not yet selected. Owners, care of Rev. J. H. Weber, 623 South Second street, Steelton, Pa. Brick. Work contemplated.

Mausoleum (add.), Wyomissing Mills, Reading, Pa. Architect, not yet selected. Owners, Sanitary Mausoleum Co., Berks County Trust Building, Reading, Pa. Granite, marble, bronze, size not decided. Work contemplated.

Garage and Show Room, Lancaster pike and Crittenden road, Ardmore, Pa. Architect, Joseph Margolis, Schaff Building, Philadelphia. Owner, M. S. Kirschner, 4039 Brown street, Philadelphia. Brick, steel, 1 story, 100x190 feet, gypsum, slate and slag roof, cement floors, steam heat, electric light. Owner taking sub-bids on garage.

Abattoir, Reading, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owners, Reading Abattoir Co., 216 Pine street, Reading, Pa. Brick, steel, 1 story and basement, 52x36 feet, Barrett roof, composition and concrete floors, waterproofing, electric work, steel sash, skylights, steel stairs. Owners ready for bids.

Church, Sunday School and Parsonage, Scranton, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Peter's Lutheran Church, Rev. B. Bohrer, Scranton, Pa. Stone, steel, 1 story and basement, and 2 stories, 41x140 feet, 50x32 feet, slate roof, hardwood floors, hollow tile, waterproofing, ornamental iron work, vapor heat, electric light, tile work, ornamental iron work. Owners ready for bids.

Residences and Garages (2), Ithan, Pa. Architect, Charles T. North, 1711 North street, Philadelphia. Owner, Paul H. Stull, Morris Building, Philadelphia. Brick, heavy timber, stucco, 2 stories, 26x60 feet, irregular. Stone, heavy timber, concrete block, stucco, 2 stories, 26x60 feet, irregular, hot water heat, electric light, tile work, shingle roof, hardwood floors. Plans about completed. Architect ready for bids.

Garage and Apartments (4), West Fifth street and Chester River, Chester, Pa. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, steel, reinforced concrete, cut stone, 2 stories, 60x150 feet, wood piles, slag roof, pine floors, steam heat, electric light, imitation tile, hollow metal skylights, fire escape. Architect taking sub-bids.

Residence and Garage, Drexel Hill, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, George W. Statzell, Drexel Hill, Pa. Hollow tile, stucco, 2½ stories, 30x54 feet, 20x30 feet, Spanish tile roof, hardwood floors, refrigerator, hot water heat, electric light, burning tile work. Architects taking bids due March 5th.

Residence, Susquehanna and Meeting House road, Meadowbrook, Pa. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owner, W. Herkness, Land Title Bldg., Phila. Stone, 2½ stories, 113x36 feet, shingle roof, oak and pine floors, hot water heat, electric light. Architect taking bids due March 8th.

Convent, Gethsemane, Columbia, Pa. Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owners, Sisters, Adorers of Most Precious Blood, St. Joseph's Convent, Columbia, Pa. Stone, cut stone, concrete, steel, 3 stories and basement, 200x48 feet, wing 120x48 feet, tile roof, cement floors, hollow tile, painting and glazing, electric light, metal lath, tile, marble and terrazzo work, bond, ornamental iron work. Architect taking bids due March 11th.

Residence (add. and alts.) to Apartment, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Vanity Box Beauty Co., 26 South Duke street, Lancaster, Pa. Brick, third story add., 60x20 feet, tin roof, hardwood floors, vapor heat, electric light, general alterations. Architect taking bids due March 5th.

Pickering Creek Filters and Pumping Station, near Phoenixville. Architect, private plans. Owners, Philadelphia, Suburban Water Co., Mr. Davis, general manager, 1612 Market street, Philadelphia. Brick, steel, concrete, cut stone, 1 story, 69x67 feet, gypsum slag roof, cement floors, bond. Owners taking bids due March 4th.

Residences (5), Merion Golf Manor, Pa. Architects, Frank Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, hollow tile, cut stone, stucco, 2½ stories and basement, 67x27 feet, 47x51 feet, shingle roof, oak and pine floors, hollow tile, metal lath (plumbing, heating, electric work reserved), tile work, ornamental iron work. Architects taking bids due March 5th.

Residence, Rydal, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, Albert J. Latta, Rydal, Pa. Architects taking bids due March 5th.

Residence (alts. and add.), St. Davids, Pa. Architect, Louis S. Adams, Radnor, Pa. Owner, Adolf G. Rosengarten, St. Davids, Pa. Stone, concrete block, cut stone, steel, 2½ stories and basement, 47x40 feet, tin and asphalt roof, slate roof, oak and pine floors, electric light, metal lath, ornamental iron work, area gratngs. Architect taking bids due March 5th.

School, Aldan, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, School Board of Aldan, A. L. Rehner, Aldan, Pa. Brick, steel, 1 story, 143x116 feet (plumbing, heating, electric separate), slag roof, ornamental iron work, maple floors. Low bidders: Hood & Gross, 1535

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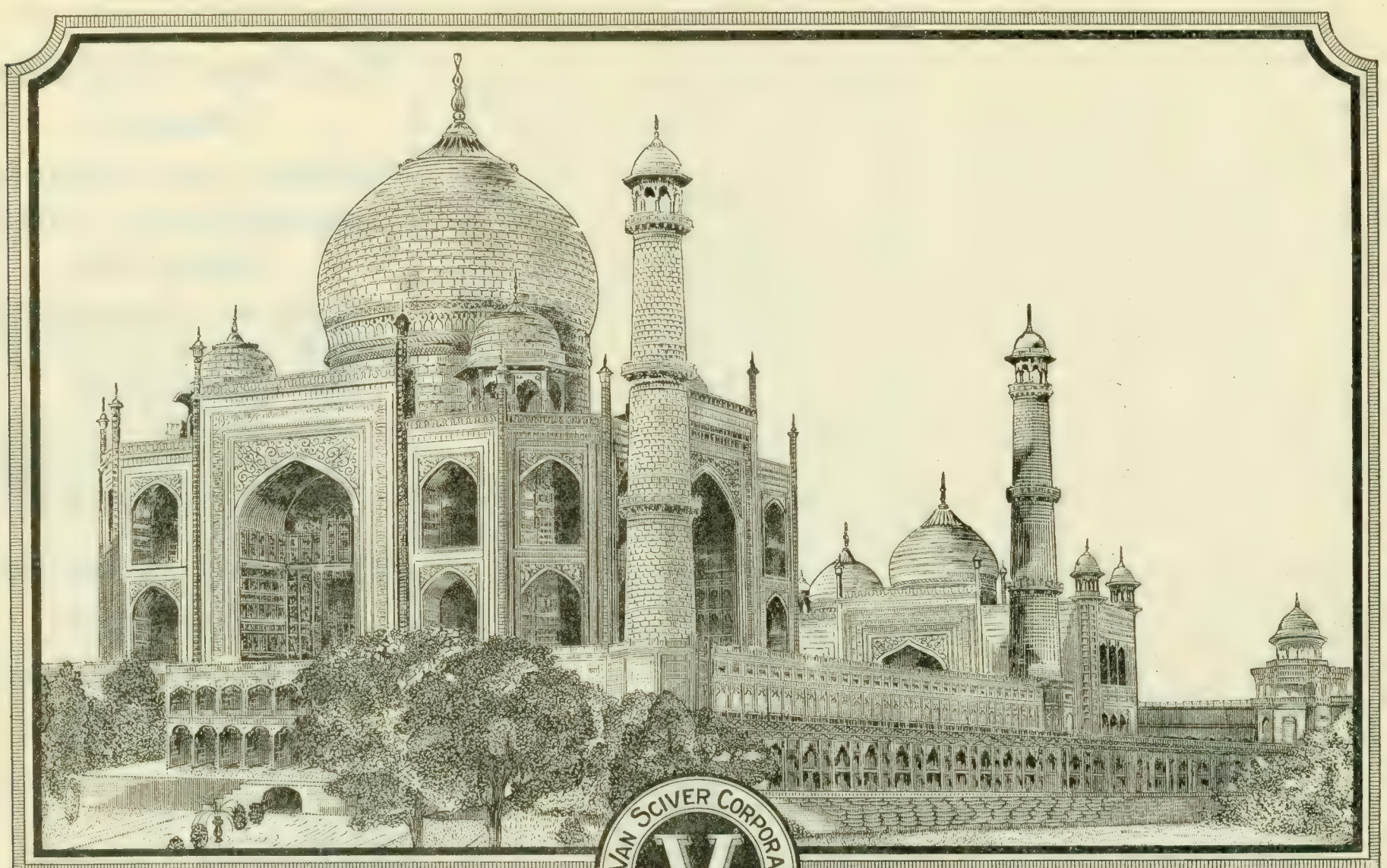
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Chestnut street, Philadelphia, $69,500; N. W. Bryan Co., 10 South Eighteenth street, Philadelphia, $71,850.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Low bidders on road work received February 19th.

Tioga County, Bridge, Shippen Township, R-102, 414x24 feet. A. W. Hinaman, Williamsport, Pa. $94,980.34.

York County, R-449, A-3547, Newberry Township, Goldsboro Borough, 15,597 feet. One course reinforced concrete. Continental Cont. Co., Baltimore, Md. $107,721.10.

Perry County, R-40, Carroll Township, 46,982 feet. Grading and drainage. Ancon Const. Co., Upper Darby, Pa. $131,919.82.

Delaware County, R-130, Upper Delaware Township, Media, Swarthmore and Clifton Heights Boroughs, 22,670 feet. One course reinforced concrete. William Eisenberg, Camden, N. J. $174,889.57.

Washington County, R-268, S-9, A-3919, East Pike Run Township, 1,827 feet. One course reinforced concrete. Thomas W. Munro & Co., DuBois, Pa. $28,537.50.

Westmoreland County, A-3592-3633, Unity Township, 10,102 feet. One course reinforced concrete. Gray Brothers, Youngstown, Ohio. $70,379.65.

Allegheny County, A-3578, Hampton Township, 8,907 feet. One course reinforced concrete. Thomas Cronin Co., Pittsburgh, Pa. $84,556.06.

Greene County, R-111, A-1451-3117, Jackson Township. One course reinforced concrete. 7,446 feet. Mosteller & Virgin, Wilkinsburg, Pa. $99,401.98.

Low bidders on road work opened February 20th:

Beaver County, A-3325, Woodlawn Borough, Hopewell Township, 7,343 feet. One course reinforced concrete. Jones Const. Co., Salem, Ohio. $78,971.94.

Butler County, R-309, A-3702, Mars Borough, 1,976 feet. One course reinforced concrete. Charles Winters Const. Co., Butler, Pa. $23,819.10.

Bradford County, R-20, S-10, Columbia, South Creek and Springfield Townships. 46,788 feet. One course reinforced concrete. Colonial Const. Co., Pittsburgh, Pa. $413,159.39.

Venango County, R-233, Victory Township, 435x24-foot bridge. James A. Crawford, Blossburg, Pa. $88,396.59.

Mifflin County, R-29, Armagh Township, 23,693 feet. One course reinforced concrete. Lord Const. Co., Hastings, Pa. $230,772.95.

Schuylkill County, R-199, S-3, Minersville Borough, Reilly, Norwegan and Branch Townships. Davd Schoentag, Saugertes, N. Y. $464,210.60.

Berks County, R-197, S-2, A-3372, Oley, Upper and Lower Alsace and Exeter Townships. Rudolph & Delano, Tamaqua, Pa. $215,995.32.

Berks County, A-3222, S-2, Greenwich and Albany Townships, 27,855 feet. One course reinforced concrete. Rudolph & Delano, Tamaqua, Pa. $198,333.68.

Pennsylvania Contracts Awarded

Schools (4), Drexel Hill, Highland Park, Bywood, Stonehurst, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, School Board of Upper Darby Townshp, J. M. Lutz, Upper Darby, Pa. Contracts awarded—Drexel School: Friel-McLeister, 1615 Spruce street, Philadelphia; heating and ventilating, American Heating & Ventlating Co., Schaff Building, Philadelphia, $24,139; plumbing, J. Borden & Bro., 637 North Nineteenth street, Philadelphia, $10,-350; electric, Arrow Electric Co., 5112 Whitby avenue, Philadelphia, $4,150. Contract awarded—Highland Park School: S. A. Sims, 2315 Walnut street, Philadelphia; plumbing, J. Borden & Bro., 637 North Nineteenth street, Philadelphia, $2,685; heating and ventilating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $9,194; electric, Arrow Elec. Co., 5112 Whitby avenue, Philadelphia, $3,670. Contract awarded—Bywood, Pa.: Wills-Bill Co., 1706 Sansom street, Philadelphia; plumbing, S. Faith & Co., 2427 Pennsylvania avenue, $9,779; heatng and ventilating, American Heatng & Ventilating Co., Schaff Building, $24,139; electre, Arrow Const. Co., 5112 Whitby avenue, Philadelphia, $4,189. Contract awarded—Stonehurst, Pa.: Bowden Const. Co., 1607 Summer street, Philadelphia; heating and ventilating, American Heating & Ventilating Co., Schaff Building, $26,290; plumbing, J. Borden & Bro., 639 North Eighteenth street, Philadelphia, $10,-453; electric, Arrow Elec. Co., 5112 Whitby avenue, Philadelphia, $4,533.

High School (add.), Ardmore, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Lower Merion Township School Board, Merion, Pa. Contract awarded: Wills-Bill Co., 1706 Sansom street, Philadelphia, $274,724; plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, $11,160; electric, United Elec. Co., 2318 Sansom street, Philadelphia, $12,800; heating, N. Connolly, 1404 North Eighteenth street, Philadelphia, $27,107.

Residence, Elkins Park, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, David C. Hitchner, 1015 Hamilton street, Philadelphia. Stone, 2½ stories and basement, hot water heat, electric light, tile work, slate roof, oak and pine floors, plumbing, ornamental iron work. Contract awarded S. R. Krewson, Ashbourne, Pa.

Show Room and Garage, Southwest Corner Main and Forrest avenue, Norristown. Architect, private plans. Owner, John O'Connell, on premises. Brick, cast stone, 1 story, 140x130 feet, steam heat, electric light, slag roof, cement floors, plate glass, flush bulks. Contract awarded H. P. Friend, Norristown, Pa.

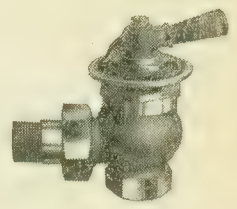
School, Seyfert, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, Board of Education, Seyfert, Pa. Contract awarded to C. H. Schlegel, 2250 Perkiomen avenue, Reading, Pa.

New Jersey Construction News

Concrete Curbs and Sidewalks, Tuckerton, N. J. Engineer, J. M. Albott, Toms River, N. J. Owners, Borough Council of Borough of Tuckerton, T. Pharo, Tuckerton. Deposit. Owners taking bids due March 11th, 8.30 P. M. Certified check, 10 per cent.

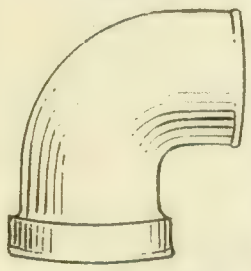
Store and Apartment, Salem, N. J. Architectural engineer, M. M. Boonin, 17 South Seventeenth street, Philadelphia. Owner, J. Marks, 196 East Broadway, Salem, N. J. Brick, steel, 2 stories, 35x44 feet, irregular,

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slag roof, pine and cement floors, steam heat, electric light, hollow metal skylights, store fixtures, flush bulks. Owner taking bids due as soon as possible.

Bank, Merchantville, N. J. Architect, J. C. Jefferies, 312 Market street, Camden, N. J. Owners, Merchantville Trust Co., E. S. Perkins, Chairman of Building Committee, Merchantville, N. J. Brick, concrete, steel, limestone, 1 and 2 stories and basement, 67x61 feet, slag roof, oak and cement floors, steam heat, electric light, metal lath, tile and terrazzo work, ornamental iron work, bronze work. Architect taking bids due March 5th.

School (add.), Wildwood, N. J. Architects, associate, V. B. Smith, Guarantee Trust Building, Atlantic City, and L. H. Boyer, Wildwood and Pacific avenues, Wildwood. Owners, Board of Education of Wildwood, William Todd, secretary, Wildwood, N. J. Brick, fireproof, 3 stories. Plans in progress.

Sales and Office Building, New Brunswick, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, E. E. Waller & Son, Paterson and Schuyler streets, New Brunswick, N. J. Fireproof, brick, steel, 3 stories, 66x166 feet, gypsum roof, concrete and terrazzo floors, hollow tile, roof ventilators, iron stairs, fire doors, hollow metal sash, marble work, metal lath, steam heat, electric light. Plans in progress. Owners will take bids.

Bridge, over Delaware River, Broad street to South Gloucester, N. J. Owners, Bridge Commissioners, Widener Building, Philadelphia. Work contemplated.

Bank Building, Moorestown, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Burlington County Trust Co., P. Hopkins, president, Moorestown, N. J. Stone, steel, concrete, 2 stories, 650x125 feet. Plans about completed. Architect will be ready for bids in 10 days.

Psychopathic Building, Nurses' Home, Housing for Physicians, Convalescent Building and (alts.) for Main Building, Trenton, N. J. Archtect, Alan B. Mills, Division of Archtecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. General construction, plumbing, heating and electric work, high tension electric servce in tunnel and underground, water servce in tunnel, fire protection, add. to Gamewell fire alarm in tunnel, completion of sewer and storm drains. Owners taking bids due March 12th at 1.30 P. M.

Masonic Home, Willow and Front streets, Trenton, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Trenton Masonic Association, Mr. S. L. Kauffman, treasurer, Broad Street Bank Building, Trenton, N. J. Indiana limestone, steel, concrete, 3 stories and basement, 98x190 feet, flat roof, hardwood and composition floors, hollow tile, tile, marble and terrazzo work, metal lath, steam heat, electric light. Owners and architects taking bids.

Resdence, Morristown, N. J. Architect, S. Arthur Love, 114 North Twenty-second street, Philadelphia. Owner, Luther Martin, Morristown, N. J. Stone, frame, 2½ stories and basement, irregular in size, hot water heat, electric light, shingle roof, oak and pine floors, ornamental iron work. Architect taking bids due March 6th.

Double Residence, Margate City, N. J. Architect, Charles H. Roberts, Otis Building, Philadelphia. Owners, McIlvaine & Co., Otis Building, Philadelphia. Brick and stucco, cut stone, 2½ stories and basement, 62x16 feet, tile, oak and pine floors, vapor heat, electric light, tile work, bond, dampproofing, ornamental iron work. Architect taking bids due March 12th.

New Jersey Contracts Awarded

School, Colwick, Merchantville, N. J. Architects, Edwards & Green, Camden, N. J. Owners, Board of Education, Merchantville, N. J. Contract awarded Fred Lange, Audubon, N. J., $87,844. Plumbing, Harry Knecht, Camden, N. J., $4,950. Heating and ventilating, Harry Knecht, Camden, N. J., $10,165. Electric, C. S. Wright, Camden, N. J., $1,575.

Factory, Southeast Corner Ninth and Liberty streets, Camden, N. J. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Congress Cigar Co., Third and Spruce streets, Philadelphia. Reinforced concrete, brick, 4 stories and basement, 160x100 feet, slag roof, cement floors, hollow tile, safety treads, steam heat, electric light, hollow metal sash, rolled steel skylights, steel doors, bond, ornamental iron work, metal toilet partitions, tin-covered doors, area gratings. Contract awarded J. S. Rogers Co., Drexel Building, Philadelphia.

Garage (add.), 15 North New Jersey avenue, Atlantic City, N. J. Architect, private plans. Owner, Walter L. Haines, Atlantic City, N. J. Brick, steel, 1 story, 96x63 feet, slag roof, concrete floors, roof ventilators, hollow metal skylights, wood doors (heating, plumbing, electric lighting reserved). Contract awarded Lam Building Co., 1001 Wood street, Philadelphia.

Church, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Centenary Tabernacle Methodist Episcopal Church, Camden, N. J. Contract awarded to C. E. Widell, 39 South Sixth street, Camden, N. J.

Building (add.), Northeast Corner Broadway and Jackson streets, Camden, N. J., $3,000. Architect, private plans. Owners, P. D. Hughes Co., Broadway and Jackson streets, Camden, N. J. Brick, 1 story add., 15 feet 6 inches x 29 feet 6 inches, slag roof, pine floors. Contract awarded to T. A. Stoutenberg, 2102 Market street, Philadelphia.

Miscellaneous Construction News

Parish Buildings, Wilmington, Del. Architect, not yet selected. Owners, Diocese of Wilmington, care of Rt. Rev. Bishop Fitzmaurice, Wilmington, Del. Work contemplated. Too early for details.

Manufacturng Building, East One Hundred and Thirty-eighth street, Mott and Walton avenues, New York City. Architects, The Ballinger Co., 100 East Forty-second street, New York City. Owners, Andrea Holding Corp., Adrian avenue and Two Hundred and Twenty-fifth street, New York. Brick, 4 stories. Architects taking bids due March 10th.

Miscellaneous Contracts Awarded

Hotel, Chimney Rock, N. C. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owners, Isothernal Hotel Co., Chimney Rock, N. C. Brick, heavy timber, stucco, 3 stories, tile roof, hardwood floors, plumbing ,electric light, tile and marble work. Contract awarded Potter-Shackelford, Greenville, S. C. Plans in proress. Details undecided.

Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., February 26, 1926. Sealed Proposals will be opened in this office at 3 P. M., March 22, 1926, for remodeling and enlarging, including incidental changes in the mechanical equipment, of the United States Post Office at Lebanon, Pa. Drawings and specifications may be obtained from the Custodian of the building, or at this Office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Archtect.

The Montgomery Iron and Steel Company for years at 9th and Berks Streets, Philadelphia, formerly located at 9th and Montgomery Ave., Philadelphia, are now preparing to move to their new headquarters at Duncan & Sepviva St., Church Lane and Aramingo Ave., Philadelphia. This site was purchased through their representative, Edward H. Cushman, 1416 Bankers Trust Bldg., Philadelphia.

A new shop building 160x256 feet will be located on the new property, as well as an office building, 2 stories, 50x50 feet. Plans are now being prepared for this work, but no set date has been fixed regarding the occupancy of the new location.

The Montgomery Iron and Steel Company has been engaged in fabrication and manufacturing of structural steel and ornamental iron work for over one hundred years. This firm was originally known as Steward and Stevens Iron Works.

Mr. Nelson Mayhew and Mr. Samuel Frank, the present partners in the Montgomery Iron and Steel Company, have been associated with this concern for many years.

(Continued from page 132)

Ways to Save Money

1. It is not necessary to partition fully the basement. If partitions are omitted at the time your home is built you can put them in afterward yourself. Only enough to enclose the fuel bin are really needed. You may save from $50 to $150 in this way.

2. Game rooms are popular. They make an interesting use of basement space. But the cost is high if the room is furnished at all well. $300 to $400 would not go far in a room of this sort. You can save it.

3. The fireplace has been called the heart of the home. Nevertheless a home will run pretty well without it. If you can bring yourself to omit it, the lowered cost of labor and material may amount to $300 or $400—perhaps more.

4. Many wooden houses are improved by the appearance of a brick base course. A stucco house must have some kind of masonry course at grade, and brick is often used for this. If you use brick then select a quality within your means. The higher the base course, the more it will cost. You may save from $50 to $150 through careful study of this item.

5. One of the most effective and easy ways to save money is to omit the porch. In certain climates this would mean a sacrifice of comfort, but often the porch is not absolutely essential. In any event it may be added at a later time. The cost ranges between $200 and $500 or more, depending upon design and size.

6. Glazing a porch is expensive for it requires not only the extra window sash but also the wood trim and its painting, and more expensive flooring than is used on an open porch. The whole additional expense may run as high as $500. You can have the porch glazed later when your funds will permit you to do so.

7. Screening the porch is an extra expense. Full length screens for the windows cost more than half screens. Metal screen frames cost more than those of wood. The wire used in making the screen cloth is of steel, either painted or galvanized, or of copper or bronze. Qualities and durability vary with the cost. Buy the grade of screen you can really afford.

8. The Building Code Committee of the United States Department of Commerce has investigated foundations for small homes and has found it generally true that a well built nine-inch foundation wall of brick or concrete is such an excellent device as to make the building of a thicker wall unnecessary. You can decrease costs by using the thinner wall provided it is soundly constructed. Thicker walls are required by some ordinances. Peculiar soil conditions may make them necessary. But foundation walls are often built unnecessarily thick.

9. The prices of brick, poured concrete, concrete blocks, or wall bearing tile for foundation work vary with the locality. Brick costs less than concrete in some districts; concrete is less expensive in others; and so on. Poured concrete and concrete blocks should be compared from the point of view of price since conditions of the market and at the building site may show that one of these materials has a real price advantage over the other.

10. Most of our modern homes have full basements, yet it is fair to inquire if this is always necessary. A full basement involves deeper foundations and more excavating. A full basement it not an absolute necessity. The saving involved in omitting it may amount to $600 or $700—often more. No matter how much basement you have, you may put in the cement floors later if you cannot afford them now.

11. If the basement excavation is in clay, perhaps you can use the excavation cut for one side of the concrete forms. There would be a saving in doing so. Some building codes do not permit this. If the work is well done, it is nevertheless quite satisfactory.

12. Tile is desirable for bathroom floors, but its greatest usefulness does not extend into wainscotes and coves. Money spent for tile work must be in keeping with your funds.

13. If you stucco the exterior of your home, be prepared to pay from $150 to $250 more than for wood siding. If the stucco has an especially modeled surface, expense is increased.

14. If you build of brick, the initial extra expense may run from $500 to $800 more than for the average wooden finished house. Remember, however, that homes finished with exterior walls of masonry carry a better fire insurance rate and there is a reduction in the cost of future painting. Depreciation is lessened. Even though the initial cost of masonry walls is more, the final cost is less. But you may not have the capital for a building of this class.

15. Wooden shutters bear an important relation to fine appearance in small homes. The improvement they add is out of all proportion to their small cost. Even so, they are not essential to fine appearance and they may be added later when you have more money. If the cost saved per pair applied is $10, it is easy to see how $100 may be saved.

16. Almost all of the devices used to ornament the exterior of your house carry with them an extra cost. When you add wrought iron railings at the door or around the windows, there is an extra cost for the iron work and also for placing it in position. The actual cost must necessarily depend upon how much of this is used. A wrought iron railing around the door may readily cost more than $50.

17. Perhaps your inclinations are toward a bungalow, but your insistence on having all the rooms on floor will almost certainly have the effect of increasing expense. Two-story houses takes less foundation walls, less excavation, less roof.

18. The style of architecture of your house has an immediate bearing on its cost. For with certain styles of architecture it is difficult to achieve desired effects without going to added expense. If, to have a house at all, it is necessary for you to cut down costs, then choose a simple type of architecture. Rectangular houses generally cost less than those built from plans of irregular shape.

19. Wide siding has a better appearance than narrow siding, but the latter costs less. Various kinds of woods used for this purpose cost different sums. Ready stained shingles used for the side walls of frame houses usually cost less than wide siding. Adjust this item to your pocketbook.

20. The initial cost of wood shingles for roofing is less than tile or slate, although wood shingles are not as durable and they are less fire resisting. Fire laws in some localities require that you use certain special types of roofing materials. There are variations in prices and qualities for each kind. High quality counts heavily, but do not attempt to buy varigated tile with a wood shingle pocketbook. If you have wood shingles brush coated, be prepared to pay from $25 to $50 more. If the shingles are dipped the expense will be increased still more, but their durability will be increased. It is better to omit such items as the porch, which can be added at any time, and to spend the money saved on better materials that count for permanent construction, including the roofing.

21. Fire stopping in frame walls is recommended by the National Board of Fire Underwriters. It is designed to reduce losses by fire. Installation of fire stopping material involves an expense of from $75 to $150. Whether or not you may omit it depends upon the location of your building with respect to the fire limits and the extent of your home building budget.

22. We are especially interested in good construction and earnestly recommend that you insist upon it if you hope to make your dollars buy full value. In this connection we think that all exterior wooden walls should be insulated, wherever the house may be located, for insulation performs a real service in fuel savings and in comfort. It is effective in both hot and cold weather. You, therefore, cannot afford to omit insulation in regions of severe winters, but elsewhere it is relatively not so important. An expense of from $75 to $350 is involved. Buy the type you can afford.

23. Built-in fittings in the kitchen cost from $100 to $300, depending upon their design, the finish, kind of wood used, and how extensively the kitchen is fitted with them. It might be less expensive for you to do without built-in fittings, at least temporarily, substituting therefore the ready-made devices of the kind. Unless the built-in fittings are extremely well designed, the ready-made kitchen cabinets are preferable and they may cost you less.

24. Extra built-in millwork such as book cases, wardrobes, china closets, cost heavily. They become real luxuries when means are limited. The actual amount involved depends on how many of these conveniences are used. And you can always buy them when you can afford them.

Reference Directory for Architects, Builders and Owners

ACCOUNTANT.
R. Landergin.....5523 Hadfield St., Phila.
ARCHITECTURAL IRON WORK
uaker City Art Metal Works,
2445 N. Second St., Phila.
ARTESIAN WELLS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.
ARTISTS' AND ARCHITECTS' SUPPLIES.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
Veber, F., Co. .....125 S. 12th St., Phila.
Veil, J. H., Co. .....1315 Cherry St., Phila.
BLUE PRINTS.
lue Print Shop.....1520 Sansom St., Phila.
obbins, Chas. H., Co.....1729 Sansom St., Phila.
Veber, F., Co. .....125 S. 12th St., Phila.
Veil, J. H., Co. .....1315 Cherry St., Phila.
BLUE PRINT PAPER.
lue Print Shop.....1520 Sansom St., Phila.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
Veber, F., Co. .....125 S. 12th St., Phila.
Veil, J. H., Co. .....1315 Cherry St., Phila.
BOILER AND PIPE COVERINGS.
ivezey, John R. Glenwood Ave. w. of 22nd St., Phila.
BRICK.
ox, Janeway, & Co..Real Estate Trust Bldg., Phila.
BRICK (Face, Common, Paving).
etcham, O. W. .....121 N. 18th St., Phila.
BUILDERS.
litchell Bros. .....2125 Race St., Phila.
oseph Rotornado.....4740 Milnor St., Phila.
BUILDING BLOCKS.
ictor Concrete Products Co.,
Primos Station, Del. Co., Pa.
BUILDERS' SUPPLIES.
ervice Supply Corporation,
20th and Venango Sts., Phila.
he Van Sciver Corporation,
The Parkway at 24th St., Phila.
Vest Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CABINET WORK.
uskey Mfg. Co. ..Columbia and Howard St., Phila.
CAST STONE
ineland Architectural Cast Stone Works,
CEMENT. Vineland, N. J.
he Van Sciver Corporation.
The Parkway at 24th St., Phila.
Vest Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CEMENT WORK.
'Lauro, John .....55 E. Mermaid Lane, Phila.
arsch, Wm. F. .....Narberth, Pa.
assiah, Frederick.Juniper and Cypress Sts., Phila.
COLD STORAGE (Insulation and Covering)
ivezey, John R. Glenwood Ave. w. of 22nd St., Phila.
COLUMNS (Metal).
earce Fireproof Co. .....1911 N. 2nd St., Phila.
CONCRETE SEWER PIPE.
roudsburg Septic Tank Co..328 Chestnut St., Phila
CONCRETE WORK.
arsch, Wm. F. .....Narberth, Pa.
assiah, Frederick.. Juniper and Cypress Sts., Phila.
CONTRACTORS' EQUIPMENT
evitt, Paul J. .....1101 S. 2nd St., Phila.
ee T. Ward Co. .....617 Filbert St., Phila.
ervice Supply Corporation,
20th and Venango Sts., Phila.
CORK FLOORING
ivezey, John R. Glenwood Ave. w. of 22nd St., Phila.
CURTIS WOODWORK.
illingham Co. ...Norris and Richmond Sts., Phila.
DAILY BUILDING NEWS.
uilding News Pub. Co. ...1530 Chestnut St., Phila.
DAMPPROOFING.
nti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
arnett Bingswanger.....829 N. 3rd St., Phila.
oncrete Waterproof Paint Co..829 N. 3rd St., Phila.
aster Builders Co., ...Otis Bldg., Phila.
ruscon Laboratories.....1505 Race St., Phila.
DOOR BEDS
urphy Door Bed Co.....512 Bulletin Bldg., Phila.
DRAWING MATERIALS.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
Veber, F. Co. .....125 S. 12th St., Phila.
Veil, J. H., Co. .....1315 Cherry St., Phila.
EXCAVATING.
arsch, Wm. F. .....Narberth, Pa.
cCarrick Bros.....3240 N. Fox St., Phila.
anitary Engineering Co.....40 S. 52nd St., Phila.
FENCES.
ettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
otts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
eisbord, Wolf .....4437-43 Ludlow St,. Phila.
FINANCING (BUILDING)
ommercial Advance Corp., 1011 Chestnut St., Phila.
ortgage Extension Corp.,.1011 Chestnut St., Phila.
FIREPLACE EQUIPMENT.
. R. Rosen.....5327 Market St., Phila.
FIREPROOFING.
earce Fireproof Co. .....1911 N. 2nd St., Phila.
FLAG POLES.
E. Lingo & Son .....Camden, N. J.
FLOOR HARDENER.
nti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
oncrete Waterproof Paint Co...829 N. 3rd St., Phila.
aster Builders Co., ...Otis Bldg., Phila.
ruscon Laboratories.....1505 Race St., Phila.
FLOORING (Rubber Tile).
amilton Rubber Mfg. Co. ..2313 Walnut St., Phila.
FLOOR PLATES.
ood, Alan, Iron & Steel Co..Widener Bldg., Phila.
FLUE LINING.
lausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Cox, Abram, Stove Co., .Amer n and Dauphin Sts.
Fleck Bros. .....44 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.
GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.
GAS RANGES.
Abram Cox Stove Co.,
American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.
GRADING
Harsch, Wm. F. .....Narberth, Pa.
GRANITE
John Meehan & Son.....916 W. Dakota St., Phila.
Vineland Architectural Cast Stone Works,
Vineland, N. J.
HARDWARE (Builders').
Devitt, Paul J. .....1101 S. 2nd St., Phila.
HAULING CONTRACTORS.
McCarrick Bros.....3240 N. Fox St., Phila.
HEATING CONTRACTORS.
Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....7038 Gray's Ave., Phila.
HEATING BOILERS.
Cox, Abram, Stove Co.,
American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
HOLLOW TILE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.
HOT WATER GENERATORS.
Edwin Elliot & Co. .....1011 Chestnut St., Phila.
INSURANCE.
Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
1711 Chestnut St., Phila.
Smith-Austermuhl Co. .....Camden, N. J.
IRON AND STEEL BARS AND PLATES.
DeCou, Richard.....11th and Noble Sts., Phila.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Thos. H. Livezey & Co.,
Luzerne and American Sts., Phila.
Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
Nicetown Plate Washer Co., Inc.,
1844 W. Juniata St., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N Mascher St., Phila.
Potts, Horace T., & Co....Erie Ave. and D St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.
KITCHEN CABINETS.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
LEVELS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
LIGHTING FIXTURES.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
LIGHT IRON CONSTRUCTION.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
LINOTILE.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.
LUMBER.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Ketcham, Howard.....3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.
LUMBER (Wholesale).
J. Randall Williams & Co.,
1031 Commercial Trust Bldg., Phila.
MARBLE AND MOSAIC.
Acorn Tile Co. .....Clementon, N. J.
Belfi Bros. Co. .....1923 Market St., Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. .....433 Spruce St., Phila.
Roman Mosaic & Tile Co. .....435 Green St., Phila.
Wm. G. Wilson.....2313 Walnut St., Phila.
MASON BUILDER.
D'Lauro, John .....55 E. Mermaid Lane, Phila.
METAL LATH.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
John S. Raynor.....2300 E. Lehigh Ave., Phila.
METERS.
Phila. Meter Co. ....Real Estate Trust Bldg., Phila.
MILLWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.
ORNAMENTAL IRON.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.
PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.
PHOTOSTATS.
Weber, F., Co. .....125 S. 12th St., Phila.
PLASTERER.
Joseph Rotornado.....4740 Milnor St., Phila.
PLASTERERS' SAFETY CLIPS.
John S. Raynor.....2300 E. Lehigh Ave., Phila.
PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., Phila.
PORCH ENCLOSURES.
Malia, Thomas .....226 W. Mentor St., Phila.
RADIATOR CABINETS.
Radiator Cabinet Co. .....Drexel Bldg., Phila.

RANGES.
Cox, Abram. Stove Co., American and Dauphin Sts.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ....1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.
REFRIGERATORS.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co.....1026 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
REINFORCING BARS.
Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
Nicetown Plate Washer Co., Inc.,
1844 W. Juniata St., Phila.
Penn Steel Service Co. .....Perry Bldg., Phila.
H. T. Potts & Co. ....Erie Ave. and "D" St., Phila.
ROAD BUILDING.
Harsch, Wm. F. .....Narberth, Pa.
ROAD MACHINERY.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation, 20th and Venango Sts.
ROOFING.
Brinkman Bros. .....2615 Frankford Ave., Phila.
Benjamin Foster Company,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.
ROOFING MATERIALS.
Service Supply Corporation,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.
ROOFING SLATE.
Chapman Slate Co .....Bethlehem, Pa.
ROOFING TILE.
Ketcham, O. W. .....121 N. 18th St., Phila.
RUBBER FLOORING.
Hamilton Rubber Mfg. Co. ..2317 Walnut St., Phila.
SAFETY GUARDS.
Potts, Horace T.. & Co...Erie Ave. and D St., Phila.
SAND AND GRAVEL
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
SCAFFOLDING.
Patent Scaffolding Co. .....2835 Bridge St., Phila.
SCREENS.
Malia, Thomas.....226 W. Mentor St., Phila.
SEPTIC TANKS.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.
SEWAGE EJECTORS.
Sanitary Engineering Co.....40 S. 52nd St., Phila.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.
SEWERAGE WORK.
Harsch, Wm. F. .....Narberth, Pa.
Sanitary Engineering Co.....40 S. 52nd St., Phila.
SEWER PIPE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
SHEETROCK (Wall Board).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.
SOUNDINGS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.
STEAM SHOVEL CONTRACTORS.
McCarrick Bros. .....3138 N. 24th St., Phila.
STEAM SPECIALTIES.
Edwin Elliot & Co. .....1011 Chestnut St., Phila.
STONE.
St. Martin's Building Stone....55 E. Mermaid Lane.
SUB-CONTRACTORS' REPRESENTATIVE
M. J. Reiser.....4238 Old York Rd., Phila.
"SURETY BONDS"
Smith-Austermuhl Co. .....Camden, N. J.
TERRA COTTA (Architectural).
Conkling-Armstrong Terra Cotta Co.,
Denckla Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.
TERRA COTTA SEWER PIPE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
TILE AND TERRAZZO WORK.
Acorn Tile Co.....Clementon, N. J.
Belfi Bros. Co. .....1923 Market St.,Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. ....433 Spruce St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.
Wm. G. Wilson.....2313 Walnut St., Phila.
TRANSITS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.
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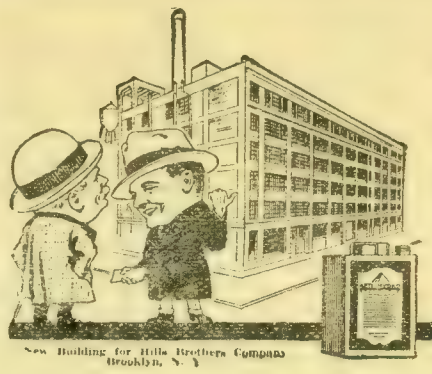
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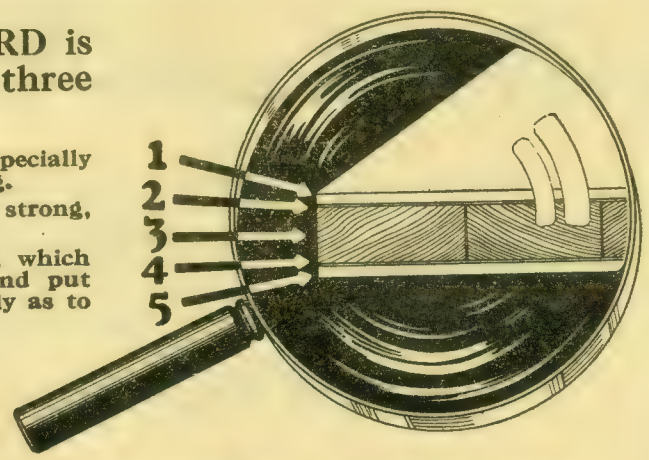
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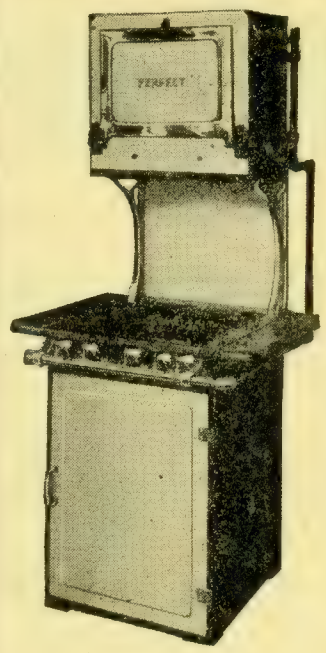
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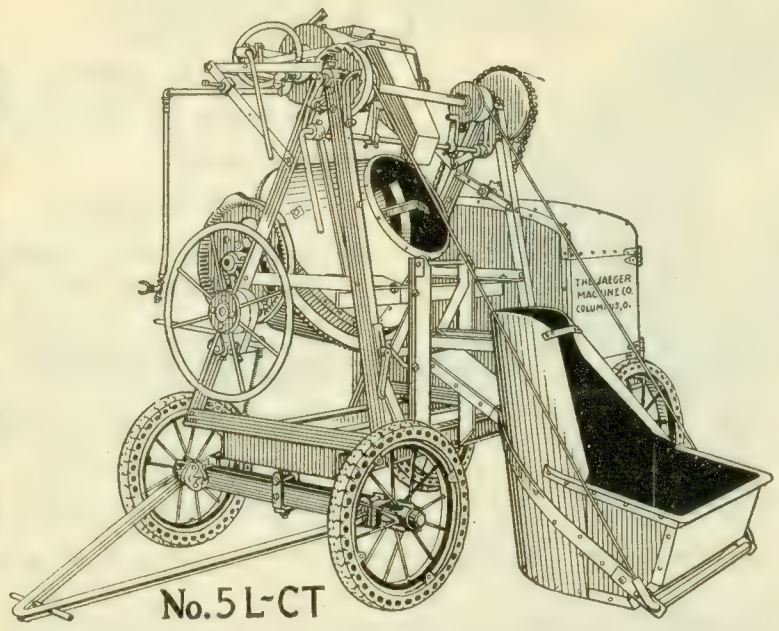
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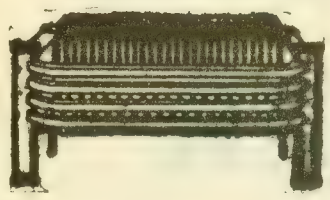
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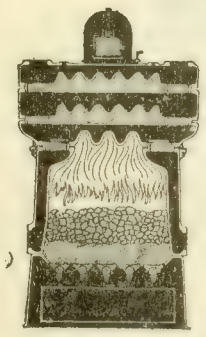
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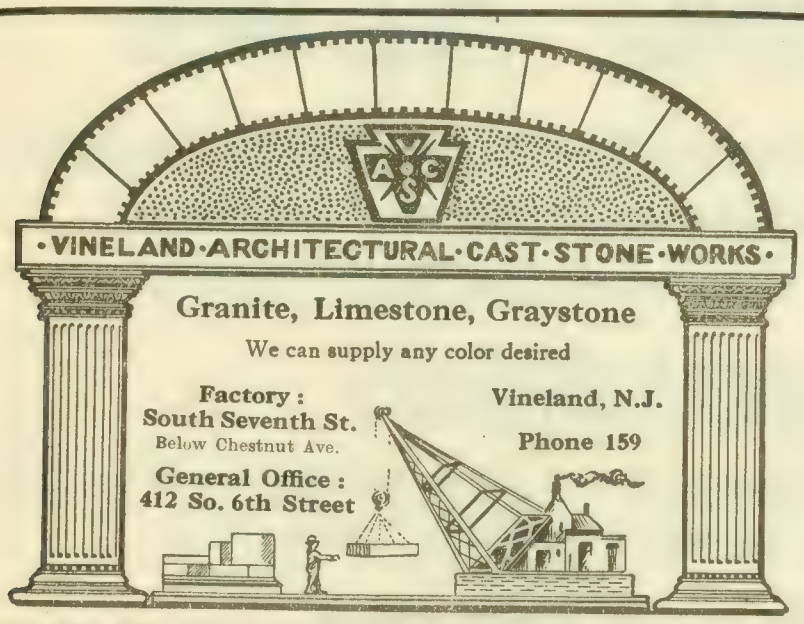
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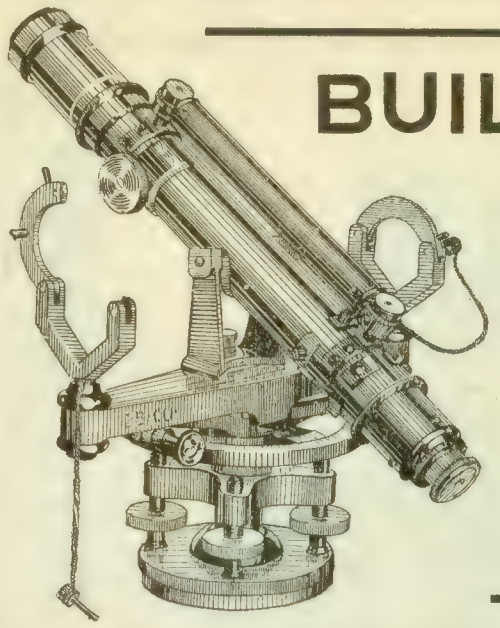
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 10

PHILADELPHIA
March 10, 1926

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As The Editor Sees It

THE WELL-BUILT CHIMNEY AND FIREPLACE

It has been said that any second rate artist could paint the family seated around the fireplace but the best artist who ever lived could not paint the family at home around a radiator. There is an element of truth in this statement. Most peope feel that a home is not complete without at least one fireplace, although it is no longer a necessity in the family life.

The fire place should be one of the structural elements in home building be cause of its usefulness and prominence in a room. The chairs are generally gathered around a fireplace. This and the fact that the brightly glowing fire is always an attraction, means that the fireplace is the center of interest. A visitor coming into your home for the first time will glance first at the fireplace and then at the books on your shelves nine times out of ten. Realizing this, one must needs pay special attention to the planning and decoration of the fireplace.

During the years between 1840 and 1900, when America was at its lowest ebb architecturally and decoratively many fireplaces that were unspeakably bad were built into homes. These were bad structurally and decoratively. So many years had passed since fireplaces were used as the only means of heat that the builders had lost the knack of constructing them so as to let the heat come out into the room and the smoke be drawn up the chimney. Masons looked upon them with tolerance and felt when they were putting them in, that they were gratifying a more or less foolish whim of the home builder and that it really didn't matter whether the fireplace would function adequately or not. Consequently nine fire places out of every ten either smoked so that they blackened the rooms noticeably or didn't draw at all and were quite useless. The woodwork was a mass of ginger-bread showing all the fantastic possibilities of the scroll saw and chisel. Often such fireplaces have to be completely done away with, if the living room is to be made beautiful according to the more simple rules of decoration in vogue today.

Quite often the fireplace which is located caty-corner is artistically bad. It is seldom a success unless planned by a good architect. The fireplace that is a huge mass projecting out into the room is also in poor taste. A fireplace that is unusually high gives the room the appearance of added height, while a broad, low fireplace is inclined to give a cottage like feeling to the room. Above all, the fireplace mustn't look cramped or crowded. It is in perfect taste when it has the appearance of being there simply to contain a comfort-giving fire.

Now that we are all striving to do away with anything that savors even faintly of being pretentious in the home, we will guard against a fireplace too rich in ornamentation. A fireplace appropriate in size, color and shape for the particular room which it is to be built in is a general rule to keep in mind when planning your home.

Avoid loading the fireplace with wood trim particularly near the opening as this is a dangerous thing to do and is poor architecturally on that account. The wooden shelf with build-in mirror above so popular in the Victorian period is obsolete. It is a mistake to use too much glazed tile around the fireplace because this smooth, glossy surface acts as a reflector producing high lights which are cold and inartistic. The color scheme should be rich, but not obstrusive. There is an infinite variety to the schemes that can be worked out using

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face brick. A point to be avoided here is using brick with too strong contrast in color which gives a spotty appearance. A fireplace can not be changed as easily as walls can be redecorated or rugs and furniture replaced, so that one can save time, money and disappointment by studying the various styles of fireplaces even before talking with their architect concerning one. The new American wing at the Metropolitan Museum of Art in New York City contains a noteable collection of fine American fireplaces. There are numerous others that could well serve as an inspiration and pattern for the building of a fireplace in a new home.

If you plan on using oriental rugs, mahogany furniture and silk draperies, you will do well to use tile instead of a rough brick in the fireplace. On the other hand, if your furniture is of oak or walnut rubbed dull, your rugs are conservative and your draperies of linen, theatrical gauze, cretonne, or chintz, you will want to use brick or a dull mat tile of a course textured material.

The proper construction of a fireplace is something that was once learned, forgotten when the fireplace fell into disuse, except as a fad, and had to be learned over again. The rough or unexposed portion of the fireplace is usually constructed of common brick laid in cement or cement-lime mortar. Stone, cement and hollow tile can aso be used. The fire chamber should be lined with fire brick laid in fire clay and the portion of hearth under the fire should be of this same material. The sides of the fire chamber should be beveled so that the heat will be thrown into the room and the back should curve in at the top for the same reason. Fireplace openings in the small or medium sized home may run from two to three feet wide and should not be over two feet six inches high, in fact for a two foot width this is too high; the height should not be greater than the width. Dependent upon the area of the fireplace opening in the area of the chimney flue. Experts vary in their recommendations considerably, some claiming a flue must be one-eighth of the opening area and others claiming one-twelfth is sufficient. It is safe to use an eight by twelve flue for opening up to thirty inches in width and a twelve by twelve flue for larger ones. The depth of the fire chamber is usually about twenty inches which seems to be regarded as a standard. We know of a fireplace in an architect's home which is only fourteen inches deep and works perfectly, the opening is thirty by thirty and the flue is directly above the fire chamber. The advantage of a shallow fireplace is that much less heat goes up the chimney. The mason of today has no excuse for not building a satisfactory fireplace when he has the advantage of using an iron throat or mantel dome containing the damper such as are on the market at very moderate prices. When this equipment is installed according to the manufacturer's directions the fireplace will draw perfectly and the fire is easily controlled by the damper. An ash drop should always be provided and the kind consisting of two leaves which drop down is very good. An eight by twelve cleanout door should open into the basement from the bottom of the chimney.

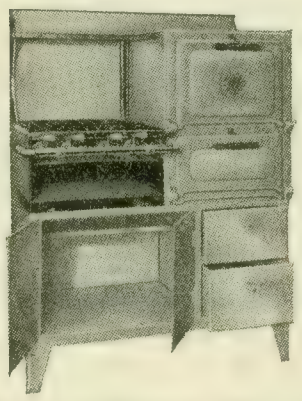
There are many materials for facing the mantel. Tile is widely used at the present time probably because the new architecture demands its use. Tile has been greatly improved both as to appearance and durability of late. Faience tile is used for the facing in many installations and can be recommended. This tile comes in glaze, dull glaze and matt glaze; the latter has a course textured surface and is more suitable for informal mantel designs than the first two. Faience tile receives a very high degree of firing and will not present a surface full of hair line cracks after use such as the old fashioned glazed tile does.

(Continued on page 160)

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Residence, North side Fleming street, West of Silverwood street, $9,000. Architect, private plans. Owner, A. G. Williams, Jr., 400 Fleming street, Philadelphia. Frame, 2 stories, 20x38 feet, shingle roof, hardwood and pine floors, electric light. Permit granted.

Apartment Houses (2), Southwest Corner Seventeenth and Champlost avenue and Northwest Corner Seventeenth and Widener streets, Philadelphia, $17,000 total. Owner, S. S. Brenner, 963 Drexel Building, Philadelphia. Brick, 3 stories, 18 feet 4 inches x irregular, slag roof, hardwood and pine floors, electric lighting. Permit granted.

Building (repairs), 5513 Beaumont avenue, Philadelphia, $2,500. Architect, private plans. Owner, William E. Hexamer, 32 Chestnut street, Philadelphia. General fire repairs. Permit granted.

Garage, Southeast Corner D and Westmoreland streets, Philadelphia. Architects, The Penwood Co., 131 North Fifth street, Philadelphia. Owners, Schnydman & Co., care of architect. Brick, steel, concrete, 1 story, 70x240 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Architect and David Lutz, Twenty-third and Chestnut streets, taking sub-bids due as soon as possible.

Factory (add.), Fifth and Hamilton streets, Philadelphia. Architect, P. S. Tyre, 114 South Fifteenth street, Philadelphia. Owners, Crescent Ink & Color Co. of Pennsylvania, 460 North Fifth street, Philadelphia. Brick. Preliminary plans in progress.

Residence and Garage, Hermit Lane, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, William M. Paul, care of architect. Stone, 2½ stories, 43x30 feet, 18x22 feet, slate roof, hot water heat, electric light, tile work, slate roof, hardwood floors. Plans in progress.

Theatre, Ogontz avenue, South of Chelten avenue, Germantown, Philadelphia. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owners, Goldner Brothers, Greene and Chelten avenues, Philadelphia. Brick, reinforced concrete, stone, fireproofing, limestone, 1 story, vapor heat, metal lath, tile and marble work, fire doors. Revised plans in progress.

Convent (alts.), Forty-seventh above Springfield street, Philadelphia. Architects, H. D. Dagit Sons & Co., 1329 Race street, Philadelphia. Owners, St. Francis De Sales Church, Rt. Rev. Bishop Crane, on premises. Brick, 3 stories, general alterations and additions. Plans in progress.

School (add.) and Rectory, Rising Sun avenue below Robbins street, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Williams' Roman Catholic Church, Rev. William A. Motley, on premises. Stone, 3 stories. Plans in progress.

Residences (6), Fifty-first and Woodbine avenue, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Phila. Owners, Messrs. Parker, Boree, Albert J. Cohen, Schreider, Van Hoon and E. J. Frankel, care of architect. Brick, stucco, 2½ stories, 30x60 feet. Plans in progress. Architects will be ready for bids in two weeks.

Apartment House (Units C and D), Forty-eighth and Pine streets, Philadelphia. Architect, private plans. Owners, J. R. & J. A. Whelan, Seventeenth and Summer streets, Philadelphia. Brick, 4 stories, 103 apartments, slag roof, hardwood floors, steam heat, electric light, tile work, hollow metal skylights, kalamein doors, elevators, Murphy door beds, kitchen equipment, limestone. Plans completed. Will start work in about one month.

Residences (42), Seventh and Johnson streets, Philadelphia. Architect, private plans. Owner, William L. Jones, 2860 South Fifteenth street, Philadelphia. Brick, 2 stories and basement, 16x45 feet, slag roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Owner will build. Ready for bids in six weeks.

Store Building, 929 Market street, Philadelphia. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Harry C. Kahn & Son, L. H. Kahn, treasurer, Eleventh and Filbert streets. Brick, steel, cut stone, granite, 11 stories and basement, 200x27 feet (plumbing, heating, electric elevator, sprinklers reserved), composition roof, cement floors, hlolow tile, waterproofing and dampproofing, architectural terra cotta, ornamental iron work, floor hardener, hollow metal doors, rolled steel skylights, hollow metal sash, tile, marble and terrazzo work, metal lath, bronze work, automatic sprinklers, ornamental plaster. Architects taking bids due March 16th.

Store Building, 4506-08 Frankford avenue, Philadelphia. Architect, Harold Holmes, Architectural Department, S. S. Kresge Co., Detroit, Mich. Owners, S. S. Kresge Co., Detroit, Mich. Brick, cut stone, granite, steel, 2 stories and basement, 95x41 feet, slag roof, Barrett Specification roof, cement, maple floors, painting and glazing, roof ventilators, metal window guards, metal weather strip, integral waterproofing, steam heat, electric light, metal lath, tile and marble work, rolled steel sash, Monitor skylights, tin-clad doors, bond, ornamental iron work, sidewalk lifts, sprinklers. Architect taking bids due March 13th.

Factory Building, A and Courtland streets, Philadelphia. Architect, E. A. Wightman, Bankers' Trust Building, Philadelphia. Owners, Concordia Silk Hosiery Co., on premises. Brick, steel, iron, 2 stories and basement, 100x100 feet, slag roof, concrete floors, fireproofing, elevators, plumbing, sprinkler vacuum heat, oil burning, electric light, rolled steel sash, hollow metal doors, dampproofing. Architect taking bids due March 13th.

Huntingdon Hall Apartment House, Twentieth and Walnut streets, Philadelphia Architect, Philip M. Julian, Edmonds Building, Washington, D. C. Owners, Wellington Building Co., care of F. H. Smith Co., 815 Fifteenth street, N. W., Washington, D. C. Brick, concrete, architectural terra cotta, steel, 15 stories, mezzanine and basement, 135x35 feet, slag roof, cement, oak floors, hollow tile, elevaeors, painting and glazing, roof ventilators, metal weather strip, integral waterproofing, steam heat, electric light, metal lath, tile and marble work, hollow metal doors, bond, iron stairs, ornamental iron work, laundry equipment, mail chute, refrigerators, revolving doors, disappearing beds, wire partitions, metal show windows, screens, bath room accessories, ironing boards. Architect taking bids due March 12th.

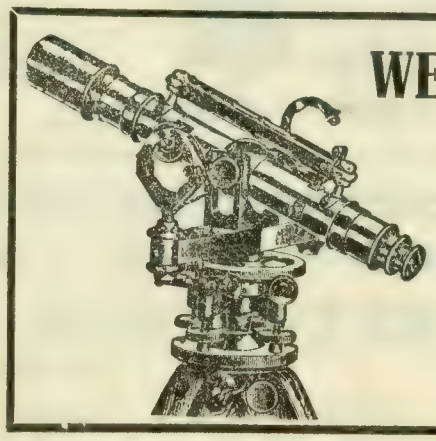
Store Building, 3055-57 Kensington avenue, Philadelphia. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Brick, cut stone, steel, limestone, 3 stories and basement, 32x66 feet, slag roof, oa kand pine floors (plumbing, heating, electric separate bids), painting and glazing, metal lath, rolled steel sash, ornamental iron work, elevator doors. Charles S. Bannett, 1633 South Fifty-ninth street, taking sub-bids due at once.

Recreation Center (improvements), Twenty-sixth and Jefferson streets, Philadelphia. City architect, John Molitor, Bankers' Trust Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, Philadelphia. Bond, concrete work, cement work, iron fences, iron gates, painting, carpentry and mill work, Barrett slag roof, painting, 1 story, 32x16 feet. Owners taking bids due March 16th.

Bank, Market and Edgewood streets, Philadelphia. Architect, J. Frank Bradley, 1121 Filmore street, Philadelphia. Owners, William Penn Title & Trust Co., care of architect. Granite, limestone, steel, reinforced concrete, 4 stories and basement, 32x90 feet, slag roof, cement floors, tile and marble work, rolled steel sash, iron stairs, metal lockers, metal toilet partitions. Deposit $10. Refund $5. Architect ready for bids in one week.

Creosoted Ties, Philadelphia. Owners, Department of City Transit, City of Philadelphia. Furnish and delivery of various sizes and lengths, total approximately 1,735,000 feet board measure of timber, most of which is Southern yellow pine, specified. Deposit $10, refunded. Certified check 5 per cent. of bid.

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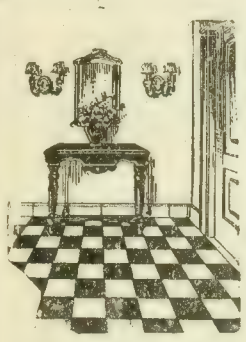
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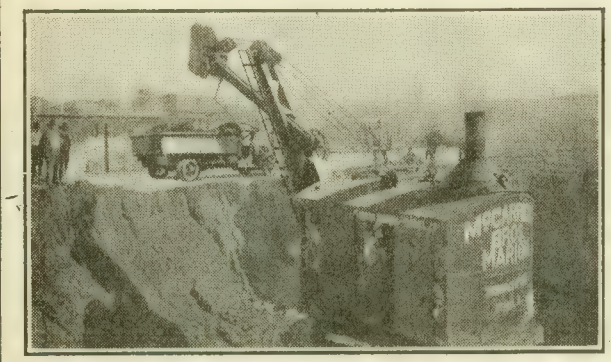
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Residences (26), Fourth and Spencer streets, Philadelphia, $112,300. Architect, private plans. Owners, Frank & Thomas Kiely, 7032 Greene street, Philadelphia. Brick, 2 stories, (25) 15x29 feee, 12x13 feet, (1) 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (34), Wellington, Leon and Frankford avenue, Philadelphia, $156,000. Architect, private plans. Owner, William B. Davenport, 6612 Wayne avenue, Philadelphia. Brick, 2 stories, (2) 16x35 feet, (30) 16x27 feet, 12x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (20), Mascher street, Nedro avenue and Grange streets, $3,500 each. Architect, private plans. Owner, Charles A. Dillan, 1417 Jefferson Building, Philadelphia. Brick, 2 stories, various sizes, slab roof, pine floors, hot water heat, electric light. Permit granted.

Terminal and Sand House, East side Eleventh street, South of Packer avenue, $8,000. Architect, private plans. Owners, Philadelphia Rapid Transit Co., 810 Dauphin street, Philadelphia. Brick, 1 story, 20x31 feet 6 inches. Permit granted.

Warehouse, 86-88-90 Armat street, Philadelphia, $6,500. Architect, private plans. Owners, Continental Mills, Armat and Lena streets, Philadelphia. Steel and iron, 1 story, 50x90 feet. Permit granted.

Residences (37), Argyle, Devereaux and Oakley streets, $188,000. Owner, William F. Connor, 2827 Diamond street, Philadelphia. Brick, 2 stories, (2) 15x49 feet, (35) 15x30 feet, 11x10 feet, hot water heat, electric light, slag roof. Permit granted.

Residences (2), 2919-21 Comly street, Philadelphia, $12,500 total. Architect, private plans. Owner, A. Palackori, 2923 Comly street, Philadelphia. Brick, 2 stories, 16x30 feet, 16x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Store and Residence (add. and alts.), 702 South street, $5,500. Architect, private plans. Owner, Nathan Koshor, on premises. Brick, 2 stories add., 18x35 feet, general alterations. Permit granted.

Stores and Offices (add. and alts.), 2321-23-25 North Twenty-ninth street, $5,000. Architect, private plans. Owner, C. Solomon, 2511 North Thirty-second street, Philadelphia. Brick, 1 story add., 14x15 feet, general alterations. Permit granted.

Residences (10), Stanwood, Lansing and Loretto streets, $47,000. Owners, Caster Highland Development Corp., Caster avenue and Hartel street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Apartment House, Northwest Corner Large and Bridge streets, Philadelphia, $15,000. Architect, private plans. Owner, Joseph P. McDevitt, Summerdale and Bridge streets, Philadelphia. Brick, 2 stories, 49x36 feet, slag roof, hardwood and pine floors, electric light, tile work. Permit granted.

Residences (5), West side Erdrick street, South of Howell street, $4,000 each. Architect, private plans. Owner, Wilfred Robinson, Arrott and Oakland streets, Philadelphia. Brick, 2 stories, 19x27 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residence and Store (add.), 4621 Rising Sun avenue, Philadelphia, $4,000. Architect, private plans. Owner, Mrs. Sheridan, on premises. Brick, 2 stories add., 18x9 feet, slag roof, pine floors. Permit granted.

Schools, Sixth and Master streets and Fifth and Nedro avenue, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, L. D. Cassell, Nineteenth above Chestnut street. Low bidders—Sixth and Master streets: William Langhorne, 10 South Eighteenth street, Philadelphia, $419,024; Sinclair & Griggs, Medical Arts Building, $343,800; plumbing, Bulman Brothers, Fifth and Cumberland streets, $19,133; heating, D. J. Keating, 2042 Rittenhouse street, $43,231; ventilating, Gerbrick & Kauffman, 44 North Second street, $2,495; electric, Walker & Kepler, 531 Chestnut street, Philadelphia, $15,473. Low bidders—Fifth and Nedro avenue: Kober Const. Co., 34 South Seventeenth street, Philadelphia, $108,773; William Langhorne, 10 South Eighteenth street, Philadelphia, $114,446; plumbing, Bulman Brothers, Fifth and Cumberland streets, $5,266; heating, D. J. Keating, 2042 Rittenhouse street, $5,570; ventilating, Mellon Co., 4415 Ludlow street, Philadelphia, $1,180; electric, J. F. Buchanan, 1904 Sansom street, Philadelphia, $2,345. Low bidders—Northeast School: William Langhorne, 10 South Eighteenth street, Philadelphia, $9,950; E. C Durrell, 1713 North Twenty-fourth street, Philadelphia, $10,226; plumbing, F. A. Wackenhut, 3215 Shelburne avenue, $3,890; heating, Bulman Brothers, Fifth and Cumberland streets, $388.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineers, 216 City Hall. Owners taking bids due March 31st at noon. Sewage disposal project, Northeast Sewage Pumping Station,

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Wheatsheaf lane and Richmond street. Schedule A—Building, mechanical equipment, electrical equipment, plumbing and heating. Certified check 5 per cent. of bid. Inquire Room 416, City Hall.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall, Philadelphia. Owners taking bids March 16th at noon. Contract No. 793, furnish and lay 24-inch and 16-inch pipe lines in Northeast Section. Contract No. 808, plumbing for Oak Lane Booster Station. Contract No. 809, hot water heating system for Oak Lane Booster Station. Contract No. 810, motor driven pumps for Shawmont and Roxborough Booster Pumping Stations. Certified check 5 per cent. of bid. Inquire Room 788.

Miscellaneous Contracts, Delaware River Bridge. Owners, Delaware River Bridge Commission, Widener Building, Philadelphia. Low bidders: Contract No 22-B, Richards-Kelly Co., 3325 Chestnut street, $15,300. Contract No. 24, Ford & Kendig Co., 1428 Callowhill street, $622,000. Contract No. 25, William Pangborne, 1927 West Montgomery avenue, $209,626. Contract No. 26, Keystone State Const. Co., Franklin Bank Building, $139,000. Contract No. 27, O'Neill Co., 127 Mermaid Lane, Philadelphia, $150,460.20.

Miscellaneous Work, Philadelphia. Low bidders. Owners, Department of Public Works, Philadelphia. Armat, Lena, Maplewood and others, Barber Asphalt Co., 1600 Arch street, Philadelphia, $80,980.14. Carlisle, Pacific, Westmoreland and Twenty-third streets, Mack Paving Co., Nicetown Lane and C streets, $31,494.89. Clarissa, Hunting Park avenue to Wayne avenue, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $77,246.64. Clinton street and Kater street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $21,317.50. Lehigh avenue, Broad to Thirteenth streets, Mack Paving Co., Nicetown Lane to C street, $15,345.97. Market street, Lancaster avenue to Thirty-sixth street, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $67,096.35. Myrtlewood street, Pemberton to Watkins, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $24,408.80. Thirty-eighth street, Sansom to Woodland avenue, Union Paving Co., Thirtieth and Locust, $25,853.11. Forty-seventh street, Baltimore to Chester avenue, Barber Asphalt Co., 1600 Arch street, $26,453.70. Schedule B—Bainbridge street, Twenty-first to Schuylkill, United Paving Co., Thirtieth and Locust streets, Philadelphia, $12,861.85. Fulton, Orianna, Chancellor and others, C. G. Centrone, Jefferson Building, Philadelphia, $26,839.70. Germantown avenue, Mermaid to Highland avenue, Mazzola & Marano, 739 South Seventh street, $8,124.90. Hutchinson street and Ninth street, C. B. Centrone, Jefferson Building, Philadelphia, $23,334.20. Leithgow street, Seventh street, C. G. Centrone, Jefferson Building, $26,644.95. Richmond street, Palmer to Frankford avenue, C. G. Centrone, Jefferson Building, Philadelphia, $21,991.85. Salaignac street and Terrace street, C. G. Centrone, Jefferson Building, Philadelphia, $8,293.05. Schedule E—Curb and footway work, J. F. O'Rourke, 5108 Wyalusing avenue, $10,968.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Low bidders: Contract No. 796, furnish and laying small pipe line in street to be repaved, M. & J. B. McHugh, 892 North Markoe street, Philadelphia, $95,685. Contract No. 799, furnish and install electric receiving equipment for Queen Lane, Keystone State P. & E. Co., 2849 Germantown avenue, $34,750.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store (add.), 932 Christian street, Philadelphia, $5,000. Architect, private plans. Owner, Luca Mancosa, 1009 South Tenth street, Philadelphia. Brick, 3 stories add., 18x12 feet, slag roof, pine floors. Contract awarded to John T. Cair, 426 Fitzgerald street, Philadelphia.

Store and Residence (add. and alts.), 148-50 West Girard avenue, $8,000. Architect, private plans. Owner, Victor L. Kurtz, 144 West Girard avenue, Philadelphia. Brick, 1 story add., 6x30 feet, general alterations. Contract awarded to John F Carberry, 5729 McMahon avenue.

Residence (alts.), 5040 Walnut street, Philadelphia, $3,000. Architect, private plans. Owner, J. B. Nolan, 6326 Greenway avenue, Philadelphia. General alterations. Contract awarded to Thomas McGowan, 3936 Spring Garden street.

Residence and Store (alts.), 1131 Poplar street, Philadelphia, $3,000. Architect, private plans. Owner, M. R. Rosen, 1131 Poplar street, Philadelphia. General alterations. Contract awarded to Sanberg & Naulty, 2622 South Ninth street, Philadelphia.

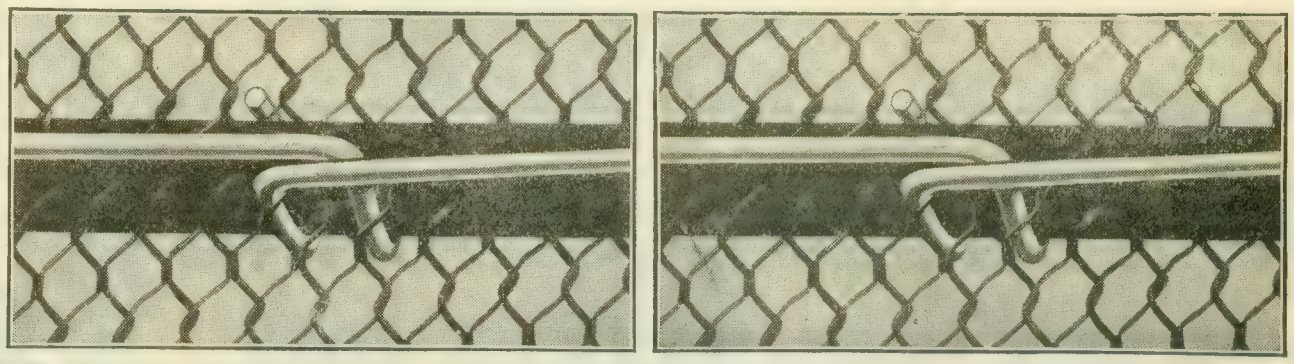
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Apartment House, Thirty-third and Arch streets, Philadelphia, $250,000. Architect, private plans. Owner, Alex. C. Fergusson, Jr., Drexel Building, Philadelphia. Brick, stone, steel, 4 stories, 140x60 feet, 48 apartments, slag roof, hardwood floors, steam heat, electric light, tile work, elevators, Murphy door beds, kitchen units, tile work, hollow metal skylights, kalamein doors, limestone. Contract awarded T. J. & J. R. Whelan, Margrave, Overbrook, Pa. Work will start in 3 weeks.

Manufacturing Building (add.), 415 Vine street, Philadelphia. Architect, Julian S. Simshon, 1353 West Girard avenue, Philadelphia. Owners, Elder & Jenks, on premises. Reinforced concrete, stone, steel, 5 stories and basement, 75x34 feet, slag roof, concrete and pine floors, plumbing, bond, ornamental iron work, metal toilet partitions. Contract awarded Smith-Hardican Co., 1809 Callowhill street, Philadelphia.

Manufacturing Building, Aramingo avenue and Tulip and Sanger streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, John Warren Watson, Twenty-fourth and Locust streets, Philadelphia. Brick, reinforced concrete, cut stone, steel, 1 story, 783x124 feet (plumbing, electric, heating, sprinkler reserved), asphalt shingle and slag roof, cement floors, metal lath, marble work, rolled steel sash, sheet metal skylights, fire and kalamein doors, iron stairs, ornamental iron work, rolled steel shutters, area gratings, steel par-

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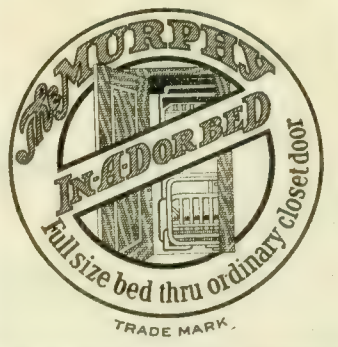
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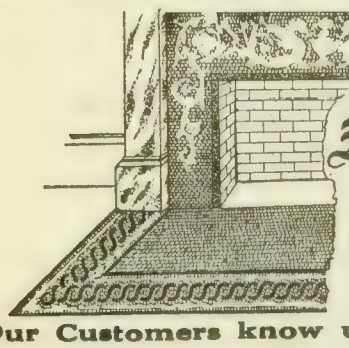


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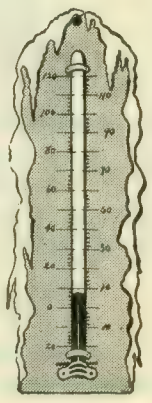
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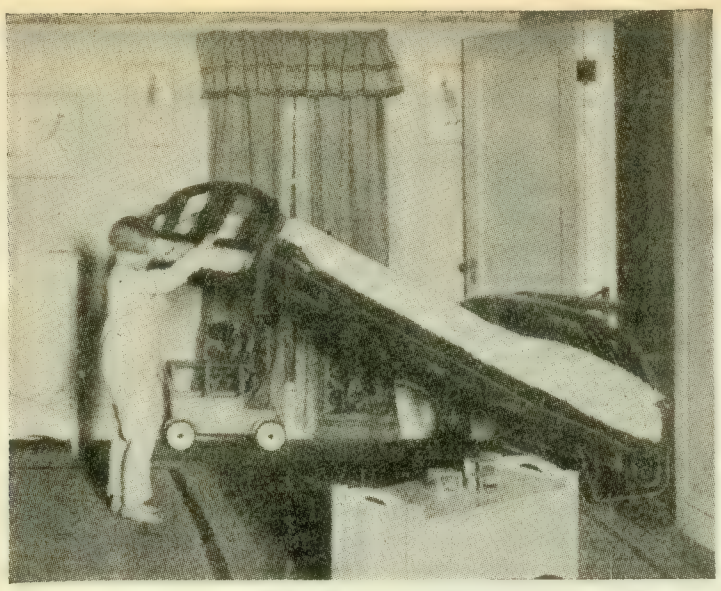
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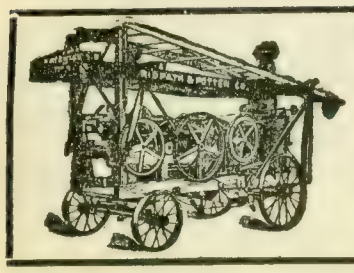
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titions. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia.

Bank, 1523 Walnut street, Philadelphia. Architects, Tilden & Register & Pepper, 1520 Locust street, Philadelphia. Owner, name withheld. Brick, steel, limestone, 2 stories and basement, 20x118 feet, slag roof, cement floors, metal lath, tile work, ornamental iron work. Contract awarded F. G. Stewart, 1520 Locust street, Philadelphia, not signed.

Factory, G and Luzerne streets, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, Huck & Gerhardt, Inc., 1030 North Bodine street, Philadelphia. Brick, steel, 1 story and basement, 51x202 feet, slag roof, cement floors (plumbing, heating, electric reserved), tile work, rolled steel sash and skylights, ornamental iron work. Contract awarded Schaeffer & Co., Otis Building, Philadelphia.

Residence and Garage, Chestnut Hill, Pa. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Samuel P. Rotan, Liberty Building, Philadelphia. Brick, 2½ stories and basement, hot water heat, electric light, tile work, shingle roof, oak and pine floors. Plans in progress. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Armory Building, 1615 Summer street, Philadelphia, $40,000. Owners, State Fencibles, care of Colonel T .S. Lanard, Bailey Building, Philadelphia. Brick, cut stone, limestone, granite, 2 stories and basement, 131x30 feet, slag roof, composition, cement and maple floors, painting and glazing, plumbing, metal lath, bond, ornamental iron work, cast stone, structural steel, oil burner, sprinkler system. Contract awarded Robbins Cont. Co., 1137 North Front street, Philadelphia.

Residence and Garage, Queen Lane Manor, Philadelphia. Architect, R. W. McCaskey, Otis Building, Philadelphia. Owner, Earl C. Cookman, 323 Arch street, Philadelphia. Stone, hollow tile, stucco, 2½ stories, 27x38 feet, garage, 18x20 feet, hot water heat, electric light, tile work, shingle roof, oak and pine floors, ornamental iron work. Contract awarded William J. Gruhler, 219 High street, Philadelphia.

Plumbing for Hospital, Fox Chase, Philadelphia, $81,000. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Jeanes Hospital, care of architect. Contract awarded William Walters Co., 1314 North Carlisle street, Philadelphia.

Alterations, 13-15 South Twenty-first street, Philadelphia, $21,600. Architect, F. V. Nickels, 15 South Twenty-first street, Philadelphia. Owner, William Moening, on premises. Brick work, cut stone, composition floors, carpentry and mill work, plate glass, plastering, slag roof, tile and marble work (plumbing, heating, electric reserved). Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

Playhouse, Wissahickon avenue and Price street, Philadelphia. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, Everett H. Brown, Packard Building, Philadelphia. Frame, 1½ stories, 20x30 feet, shingle roof, pine floors, plumbing, hot air heat, electric light. Contract awarded E. R. Hall, 34 South Seventeenth street, Philadelphia.

Residence and Garage, Haines, East of Chew street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Robert N. Morford, 6518 Limekiln Pike, Philadelphia. Stone, 2½ stories, 30x40 feet, 14x15 feet, slate roof, hardwood and cement floors, hot water heat, electric light, tile work. Contract awarded J. Henry Parker, 2059 Sixty-fifth avenue, Philadelphia, who is taking sub-bids due at once.

Apartment House, Southwest Corner Thirteenth and Lindley avenue, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owners, Lindley Avenue Apartment Corp., care of builder. Brick, artificial stone, 4 stories, 65x308 feet (84 apartments), slag roof, hardwood floors, 4 elevators, hot water or vapor heat, oil burning, electric light, metal lath, tile and marble work, hollow metal skylights, 3 fire towers. Contract awarded S. Yellin, 222 North Eleventh street, Philadelphia, who is taking sub-bids due at once.

Building (general int. alts.), 1009 Race street, Philadelphia. Architect, private plans. Owners, Oakwood Chair Mfg. Co., J. Pinkeirs, president; B. Pinkeirs, treasurer; Eugene Pinkeirs, secretary, 1009 Race street, Philadelphia. Carpentry and mill work, painting and glazing, plastering Contract awarded John A. Codori, 1235 Arch street, Philadelphia.

Building (alts.), Twenty-fourth and Arch streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, George Pilling Co., on premises. Sheet metal work, brick work, plate glass, painting, steel work. Contract awarded J. C. Haldeman, 322 West Mount Pleasant, Philadelphia.

Store, 5450 Germantown avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Glynden H. Priestman, on premises. Contract awarded T. S. Fetter, 1829 Filbert street, Philadelphia.

Residence (alts.), 126 South Nineteenth street, Philadelphia, $4,000. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owner, Charles A. Verna, 119 South Seventeenth street, Philadelphia. Carpentry, mill work, electric work, plumbing, painting. Contract awarded to William R. Dougherty, 1608 Sansom street, Philadelphia.

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Printing Plant, 5806-18 North Marvine street, Philadelphia, $40,000. Architect, private plans. Owner, Ralph G. Barnes, 1218 Market street, Philadelphia. Brick, 2 stories, 81 feet 6 inches x 49 feet 6 inches, 17x17 feet, slag roof, steam heat, electric light. Contract awarded to F. B. Davenport, 240 North Sixteenth street, Philadelphia.

Storage Building (alts.), Northeast Corner Eighth and Callowhill streets, $15,000. Architects, S. B. Lewis Co., 1713 Sansom street, Philadelphia. Owners, Kingan Provisión Co., Eighth and Callowhill streets, Philadelphia. General alterations. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

Sprinkler, 1422 North Eighth street, Philadelphia, $11,000. Owner, E. J. McAleer, 1422 North Eighth street, Philadelphia. Contract awarded to Globe Auto. Sprinkler Co., 2035 Washington avenue, Philadelphia.

Residence, East side Henry street, North of Rector street, Philadelphia, $10,500. Architect, private plans. Owner, Robert Le Fort, East Hermit Lane, Philadelphia. Brick, 2 stories, 30x45 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to C. M. Swartley, 6835 Ridge avenue, Philadelphia.

Store and Storage Building (add.), 2201 Cleveland street, $5,600. Architect, private plans. Owner, Mr. Miller, 1812 Susquehanna avenue, Philadelphia. Brick, 2 stories add., 15x10 feet. Contract awarded to Joseph Sweet, 2549 North Spangler street, Philadelphia.

Orphanage (add.), East side Milnor street, South of Cottman, $20,000. Owners, St. Vincents Orphan Asylum, Cottman street and Delaware River. Brick, 2 stories add., 36x36 feet, heating extension, electric light, pine floors, slag roof. Contract awarded to Thomas M. Keely, 411 Germantown avenue, Philadelphia.

Country Club (add.), North side Grant avenue, West of Frankford avenue, $10,000. Architect, private plans. Owners, Torresdale Country Club, on premises. Rest room addition. Contract awarded to W. W. Anstine, Frankford avenue and Oxford street.

Shed, Southeast Corner Trenton avenue and Ann street, Philadelphia, $6,000. Architect, private plans. Owners, Ellwood Allen Lumber Co., on premises. Frame, 59x112 feet. Contract awarded to Joseph A. Wolf, 2623 Sepviva street, Philadelphia.

Residence (alts.), 2035 North Park avenue, Philadelphia, $2,500. Architect, private plans. Owner, Benjamin Medvene, on premises. General alterations. Contract awarded to Joseph Medyene, 2035 North Park avenue, Philadelphia.

Store and Residence (add.), 616 South Fifty-second street, Philadelphia, $2,000. Architect, private plans. Owner, W. H. Papajian, 5213 Webster street, Philadelphia. Brick, 2 stories, 16x12 feet, slag roof, pine floors, electric work. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

Gymnasium (alts.), 918 Locust street, Philadelphia, $4,500. Architect, private plans. Owners, Benezet House Association, on premises. General alterations. Contract awarded to R. C. Ballinger Co., 925 Walnut street, Philadelphia.

Station (add.), 3444 Kensington avenue, Philadelphia, $15,000. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, 1 story add., 82x10 feet, slag roof, cement work. Contract awarded to F. M. Harris & Co., 1520 Parrish street, Philadelphia.

Gas Station, Northwest Corner Fifth and Roosevelt Boulevard, Philadelphia, $5,000. Architect, private plans. Owners, Kuhn & Lowery, Fifth and Rockland streets, Philadelphia Brick, 1 story, 15x17 feet. Contract awarded to A. Raymond Raff Co., 1635 Thompson street.

Store (repairs), 1320 Chestnut street, Philadelphia, $5,000. Architect, private plans. Owners, Thresher Brothers, on premises. General fire repairs. Contract awarded to Frank V. Warren Co., 1913 Arch street.

Residences (2), East side Vandyke street, North of St. Vincent street, $4,000 each. Architect, private plans. Owner, Frank Storck, 426 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 16x28 feet, 11 feet 6 inches x 10 feet, slag roof, pine floors. Contract awarded to Charles H. Clifton, 1106 East Price street, Philadelphia.

Store and Residence (add. and alts.), Southwest Corner Nineteenth and Oxford streets, $3,150. Architect, private plans. Owner, Jacob Selector, on premises. Brick, 1 story add., 13x17 feet, general alterations. Contract awarded to S. Aeterman, 5400 B street, Philadelphia.

Store (alts.), 939 Market street, Philadelphia, $2,400. Architect, private plans. Owners, Lyerie Shoe Co., on premises. General alterations. Contract awarded to S. Yellin & Son, 222 North Eleventh street, Philadelphia.

Residence, West side Torresdale avenue, North of Ashburne street, $5,000. Architect, private plans. Owner, Tony Pomo, 3510 Vincent street, Philadelphia. Brick, 2 stories, 17x44 feet, hot water heat, electric light. Contract awarded to D. A. Pingatori, 4243 Frankford avenue, Philadelphia.

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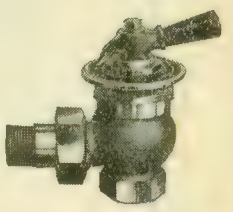
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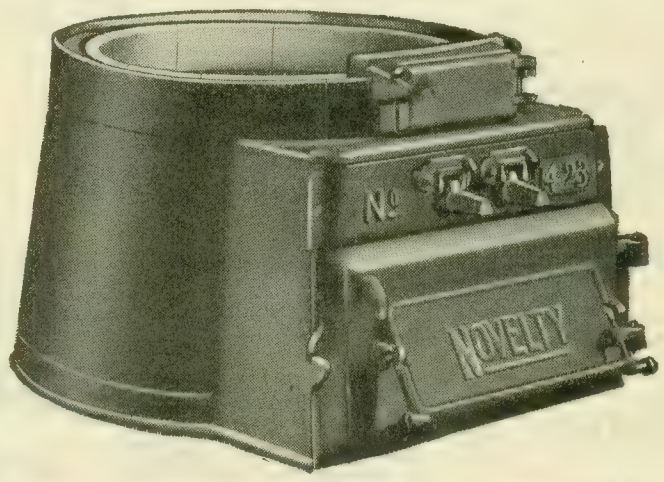


Illustration of Combustion Ring

avenue, North of Penn street, $9,000. Architect, private plans. Owners, James T. Nolen & Sons, 364 East Penn street, Philadelphia. Concrete. Contract awarded to Nicholas Co., 247 Park avenue, New York.

Stack, Northwest Corner Orthodox and Large streets, Philadelphia, $3,000. Architect, private plans. Owners, La France Textile Co., 4423 Frankford avenue, Philadelphia. Brick, 100 feet high x 4 feet. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

Building (alts.), 3225 North Front street, Philadelphia, $3,000. Architect, private plans. Owner, B. Hirschoff, 3227 North Front street, Philadelphia. General alterations. Contract awarded to B. Tillinger, 1551 North Sixth street, Philadelphia.

Store and Residence (alts.), Southeast Corner Fourth and Girard avenue, $2,000. Architect, private plans. Owner, Charles Poley, Eighth and Spring Grove avenue, Philadelphia. General alterations. Contract awarded to Philip Garlick, 830 North Sixth street, Philadelphia.

Manufacturing Building (alts.), 3919 Lancaster avenue, $2,000. Architect, private plans. Owners, Douglass Caramel Co., on premises. General alterations. Contract awarded to F. G. English & Sons, 1606 North Carlisle street.

Stores and Residences (3), 8022-24-26 Germantown avenue, $21,000. Architect, private plans. Owner, A. J. Sabin, 960 Lycoming street, Philadelphia. Brick, 2 stories, (2) 16x30 feet, 13x30 feet, (1) 16x60 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Braun Brothers, 113 East Moreland avenue, Philadelphia.

Residence, West side Burholme avenue, North of Oxford street, $7,000. Architect, private plans. Owner, Frank Lefferts, Fox Chase, Pa. Frame, 2 stories, 2x30 feet, hardwood and pine floors, electric work. Contract awarded to A. H. Hebracker, 49 Park avenue, Fox Chase, Pa.

Bank (alts.), 421 Chestnut street, Philadelphia, $15,000. Architect, private plans. Owners, Philadelphia National Bank, 421 Chestnut street, Philadelphia. General alterations. Contract awarded to William Steele & Sons Co., 219 North Broad street.

Residence (add.), 700 Marlyn Road, Philadelphia, $2,000. Architect, private plans. Owner, Hyman Shanker, on premises. Brick, 1 story add., 25x9 feet. Contract awarded to Nicola De Baggio, 243 North Sixty-fourth street, Philadelphia.

Residence and Store (add.), 6301 Dittman street, Philadelphia, $2,000. Architect, private plans. Owner, Fred Kugler, 6301 Dittman street, Philadelphia. General alterations and addition. Contract awarded to C. C. Campbell, 6419 Bingham street, Philadelphia.

Sesqui Centennial Building, Broad and Pattison Ave., Philadelphia. Architect, Ralph Benckert, Bellevue Court Building, Philadelphia. Owners, State of Pennsylvania, Sessui-Centennial Comm., care of Harry J. Baxter, Widener Building, Philadelphia. Metal lath, stucco, steel, 1 story, 333x224 feet, open court, 150x133 feet, built-up roof, pine floors, metal lath, rolled steel sash, Bond, ornamental iron, integral waterproofing, ornamental plaster, metal toilet partitions, moving picture booth, colored cement fountains, (plumbing, electric work, finished grading, sidewalks, paving, curbing, piling and fill, reserved). Contract awarded to F. W. Mark Const. Co., Commercial Trust Bldg., Philadelphia. Electric awarded to United Electric Const. Co., 2318 Sansom Street, Philadelphia, $19,119. Plumbing awarded to Bulman Bros., Fifth and Cumberland Sts., Philadelphia. $6,988.

Pennsylvania Construction News

Twin Residences (52), Church Lane, Chelten avenue, Bunting road, Yeadon, Delaware County, Pa. Architect, private plans. Owner, Daniel Crawford, 3901 Chestnut street, Philadelphia. Stone, brick, hollow tile, stucco, 2½ stories, various sizes, slate and shingle roof, hardwood floors, cement work, metal lath, electric light, tile work. Plans in progress. Owner ready for bids.

Residence, Elkins Park, Pa. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owner, Allen Kirschbaum, Broad and Carpenter streets, Philadelphia. Stone, brick, 2 stories, 22x75 feet. Plans in progress. Too early for details.

Store and Apartments (11), Collingdale, Pa. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owners, Marcus & Benn, 6316 Woodland avenue, Philadelphia. Cinder block and stucco, 2 stories, 18x50 feet, slag roof, pine and hardwood floors, hot water heat, electric light, tile work. Plans in progress.

High School, Willow Grove, Pa. Architect, T. Frank Miller, 1012 Walnut street, Philadelphia. Owners, School of Upper Moreland Township, Dr. J. K. Wood, president, Willow Grove, Pa. Brick, stone, 2 stories. Preliminary plans completed. Working plans will be started at once.

Theatre, Northeast Corner Lansdowne and Baltimore avenue, Lansdowne, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Lessee, Herbert Effinger, 1631 W. Ruscomb street, Philadelphia. Owners, Harrison Brothers, Bryn Mawr, Pa. Stone, brick, steel, concrete. Plans in progress.

Madison School, West Scranton, Pa., $150,000. Architect, F. J. Miller, Brooks Building, Scranton, Pa. Owners, Scranton School Board, J. D. Hughes, secretary, Scranton, Pa. Brick, 2 stories and basement, 12 rooms, hardwood floors, hollow tile, safety treads, roof ventilators, metal weather strips, metal ceilings, waterproofing and dampproofing, ornamental iron, iron stairs, bond, rolled steel sash and skylights, tile and marble, metal lath (plumbing, heating and electric separate). Plans in progress.

Morris School, West Scranton, Pa., $150,000. Architect, F. J. Miller, Brooks Building, Scranton, Pa. Owners, Scranton School Board, J. D. Hughes, secretary, Scranton, Pa. Brick, 2 stories and basement, 12 rooms, hardwood floors, hollow tile, safety treads, roof ventilators, metal weather strips, metal ceilings, waterproofing and dampproofing, ornamental iron, iron stairs, steel sash and skylights, tile and marble, metal lath, bond (plumbing, heating and electric separate) Plans in progress.

Hospital (add.), Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Allentown Hospital, E. M. Kronniger, Allentown, Pa. Fireproof, 3 stories, 50x150 feet, metal lath, tile and marble work. Preliminary plans in progress.

School, Upper Nazareth, Pa. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown,

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Pa. Owners, Upper Nazareth Township School Board, D. E. Reinert, secretary, Nazareth, Pa. Brick, steel, concrete, 1 story, 4 rooms, slag roof, concrete and Duraflex floors, hot air heat, electric light. Plans in progress.

Theatre, Drexel Hill, Pa. Owners, Stanley Co. of America, 1916 Race street, Philadelphia. Work contemplated.

Inn, Washington Crossing, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, The Washington Crossing Park Commission, Washington Crossing. Hollow tile, stucco, 2 stories. Preliminary plans in progress.

Residence Development Site, Felton Tract, Chester, Pa. Engineers, Albright & Mebus, 1502 Locust street, Philadelphia. Owners, Parkstone Realty Co., care of Alex. Lieberman, 211 South Fifteenth street, Philadelphia. Engineers preparing site, grading, paving, laying sewers, water lines, etc. Plans being drawn.

Hotel (400 rooms), East Liberty street, Pittsburgh, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelpiha. Owner, name withheld. Brick, steel. Plans in progress. Too early for details.

Residence and Garage, Wynnewood, Pa. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owners, Schlipf & Mazzonio, Narberth, Pa. Stone, concrete, brick and stucco, 2½ stories, 60x33 feet, hot water heat, electric light, hardwood floors, tile work. Owners will build.

Hotel, New Castle, Pa., $750,000. Owners, New Castle Community Hotel Co., New Castle, Pa. Brick, steel, concrete, 150 rooms. Work contemplated.

Church, Wilkes-Barre, Pa. Architects, Schroeder & Schmitt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, St. Joseph's Slavoc Roman Catholic Church, care of architects. Steel, stone, 1 story and basement, 54x119 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble, metal lath, steel sash, rubber tile. Plans in progress.

Warehouse and Tunnel, rear of Lackawanna and Wyoming avenues, Scranton, Pa. Architects, E. H. Davis and George M. D. Lewis, Union Bank Building, Scranton, Pa. Owners, Scranton Dry Goods Co., on premises. Brick, 3 or 5 stories, 40x70 feet. Plans in progress.

Residence, Hazleton, Pa. Architects, Schroeder & Schmitt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Frame and stucco, 2½ stories, 30x45 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

Sunday School, Auditorium and Parish House, Scranton, Pa. Architects, E. H. Davis and George M. D. Lewis, Union Bank Building, Scranton, Pa. Owners, Church of the Good Shepherd, Rev. B. Beach, Scranton, Pa. Fireproof, steel, brick, limestone, 2½ stories, 40x100 feet, Barrett roof, hardwood and tile floors, hollow tile, dampproofing, leaded glass, steam heat, electric light, tile and marble. Plans in progress. Architects will take bids about April 1st.

Y. M. C. A. Building, Wilkes-Barre, Pa. Architect, T. A. Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Y. M. C. A., care of architect. Fireproof, steel, brick, 6 stories, 119x168 feet, built-up roof, concrete and hardwood floors, hollow tile, elevators, safety treads, roof ventilators, metal weather strips, waterproofing and dampproofing, iron stairs, ornamental iron, bond, fire doors, steel sash and skylights, tile and marble, metal lath, steam heat, electric light. Plans in progress. Architect will be ready for bids in June.

Hall, Washington avenue, Scranton, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, Carpenters' Union, 332 Lackawanna avenue, Scranton, Pa. Brick, 2 stories and basement, 50x150 feet. Will be ready for bids about May 15th.

Residence (alts.), Barren Hill, Montgomery County, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Harry Mathieu, Main St., Trappe, Pa. Frame and stucco, 2½ stories, 33x33 feet, asbestos roof, oak floors (heating, plumbing and lighting reserved), metal lath, steel and wood sash, Morgan doors. Plans in progress. Owner will take bids.

Country Club, Fitzwatertown, Pa. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Lu Lu Temple Country Club, on premises. Plans completed. Ready for bids in a few days.

Store and Apartments (6), Garages (2), Lansdowne, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, J. Clark, Lansdowne, Pa. Brick, hollow tile, 3 stories, 40x75 feet, 18x24 feet, slag roof, pine and hardwood floors, cement work, hot water heat, electric light, tile work, copper bulks, plate glass. Plans in progress. Architect ready for bids in one month.

School (add.), Cornwells, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Board of Education, Bensalem Township, C. C. Markley, Chairman of Building Committee, Andalusia, Pa. Stone, 2 stories, 34x60 feet, slag roof, maple floors, Univent heat, electric light. Plans in progress. Ready for bids in one month.

Residence and Garage, Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, W. L. Mason, Doylestown, Pa. Hollow tile, stucco, 2½ stories, 40x30 feet, 18x22 feet, slate roof, hardwood and cement floors, hot water heat, electric light, metal lath, tile work. Plans in progress. Architect will be ready for bids in 3 weeks.

Residence and Garage, Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, J. H. Hoffman, Doylestown, Penna. Hollow tile, stucco, 2½ stories, 40x30 feet, 18x22 feet, slate roof, hardwood and cement floors, hot water heat, electric light, tile work, metal lath. Plans in progress. Architect will be ready for bids in 3 weeks.

High School, Hazleton, Pa., $800,000. Architects, Lawrie & Green, Harrisburg, Pa. Owners, Hazleton School Board, D. I. Evans, secretary, Hazleton, Pa. Brick, steel, 2 stories and basement, 318x300 feet (plumbing, heating, electric separate), composition roof, maple and cement floors, hollow tile, safety treads, roof ventilators, metal weather strip, dampproofing, ornamental iron work, bond, metal lath, tile work. Owners taking bids due April 6th.

Church, Auditorium and Sunday School, Kingston, Pa. Architect, H. G. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Church of Christ of Dorranceton, Rev. H. McGarvie, Kingston, Pa. Brick, 3 stories, 46x88 feet, asbestos shingle roof, hardwood floors (heating, plumbing and electric work reserved), tile work. Architect taking bids due March 11th.

Abattoir, Reading, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owners, Reading Abattoir Co., 216 Pine street, Reading, Pa. Brick, steel, 1 story and basement, 62x36 feet, Barrett roof, composition and concrete floors, waterproofing, electric light, steel sash, skylights, steel stairs. Owners taking bids due March 12th at 6 P. M.

Post Office Building, Lebanon, Pa. Architect, James A. Wetmore, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Remodeling and enlarging post office building, including mechanical equipment, Lebanon, Pa. Owners taking bids due March 22nd, 3 P. M.

Store and Office (alts. and add.), Washington street, Wilkes-Barre, Pa. Architects, Schroeder & Schmitt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, name withheld. Brick, steel, 2 stories, 114x22 feee, slag or slate roof, hardwood floors, metal ceilings, central heat, electric light, tile and marble work. Architects taking bids due as soon as possible.

Residence, Whitemarsh, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Franklin Spencer Edmunds, Packard Building, Philadelphia. Architect taing bids due March 13th.

Church, York, Pa. Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owners, Holy Trinity Roman Catholic Church, Rev. P. G. Brueggermann, York, Pa. Architect taking bids due March 16th.

Lodge Building, Second avenue and Fayette street, Conshohocken, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, Knights of Columbus Home Association, Conshohocken, Pa., Conshohocken Council, care of C. A. Desimone, Chairman, Conshohocken, Pa. Brick, steel, 3 stories. Ready for bids April 2nd.

School, Aldan, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, School Board of Aldan, A. L. Rehner, Aldan, Pa. New bids will be taken due March 22nd.

School, Langhorne, Pa. Architect, A. O. Martin, Doylestown, Pa. Owners, Middletown Township School Board, Joseph Mather, President, Langhorne, Pa. Brick, steel, 2 stories and basement, slag roof, maple floors, 37x90 feet, steam heat, electric light, concrete work. Plans completed. Architect ready for bids due March 27th, 4 P. M.

Supplies, Philadelphia. Purchasing Agent, E. J. Lafferty, 312 City Hall, taking bids due March 1t5h at noon. Paving, gravel, stone, asphalt wearing surface, electric supplies. Certified check 5 per cent.

Masonic Temple, Scranton, Pa. Architect, Raymond M. Hood, 40 West Fortieth street, New York. Owners, Masonic Temple Association, 326 Adams avenue, Scranton, Pa. Preliminary plans in progress. Too early for details.

Pennsylvania Contracts Awarded

Mill Building, Spring City, Pa. Architect, Fred Muhlenberg, Reading, Pa. Owners, Schuylkill Valley Mills, Inc., William Meyer, care of Apex Hosiery Co., Fifth and Luzerne streets, Philadelphia. Reinforced concrete, brick, steel, 3 stories and basement, 80x90 feet, slag roof, cement floors, hollow tile, elevators, painting and glazing, plumbing, safety treads, waterproofing, ornamental iron work, rolled steel sash, metal lath, electric light, steam heat, sprinkler system, steel partitions, hollow metal doors. Contract awarded White Const. Co., Jefferson Building, Philadelphia.

Residence and Garage, Lower Merion, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, E. Larney, 551 North Fifty-second street, Philadelphia. Stone, cinder block and stucco, 2 stories, hardwood floors, hot water heat, electric light, tile work. Contract awarded D. Ridgeway Evans, Cynwyd, Pa.

Textile Building, Chester, Pa. Architects, Heckman & Le Maistre, Bellevue Court Building, Philadelphia. Owners, Chester Lace Co., Chester, Pa. Reinforced concrete, brick, steel, 3 stories, 2 stories and basement, 134x56 feet, 84x100 feet, Barrett specification and asphalt shingle roof, roof ventilators, plumbing, Truscon waterproofing, architectural terra cotta,

ornamental iron work, brass piep, iron stairs, bond, fire and steel doors, copper skylights, rolled steel sash, area gratings, sprinkler system, dumb waiters, metal partitions, wrought iron pipe, steam heat, electric light. Contract awarded William Provost, Jr., Chester, Pa.

Residence and Garage, Beverly Hills, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Dr. Edward Drumball, Beverly Hills, Pa. Stone, stucco, 2½ stories, 38x25 feet, garage, 18x23 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Contract awarded Louis B. Goff, Twenty-fifth and Snyder avenue, Philadelphia, and Beverly Hills, Pa.

Residence (add. and alts.), Scranton, Pa. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owner, Mrs. Edward Morgan, care of architect. Frame, 2½ stories, 24x22 feet, shingle roof, pine floors, heating extension, electric light, tile work, vault and vault doors, electric refrigeration, incinerator. Contract awarded to Hower & Stender, 1001 Madison avenue, Scranton, Pa.

Apartment Building, Jackson and Franklin streets, Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, American Realty Co., care of architect. Fireproof, 6 stories, 80x80 feet, Barrett roof, hardwood floors, ornamental iron work, iron stairs, fire doors, rolled steel sash, tile and marble work, metal lath, steam heat, electric light. Contract awarded to A. M. Hildebrand, 91 Wood street, Wilkes-Barre, Pa.

Bank, Scranton, Pa. Architect, F. H. Morgan, Scranton, Pa. Owners, North Scranton National Bank, Scranton, Pa. Brick, limestone, steel, 1 story and mezzanine, 50x100 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile work, rolled steel sash, ornamental iron work. Contract awarded Sinclair & Griggs, Medical Arts Building, Philadelphia, $300,000.

Residence (alts.), Devon, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, F. E. Newbold, on premises. Carpentry and mill work, painting and glazing, plastering, heating alterations. Contract awarded E. R. Hall, 34 South Seventeenth street, Philadelphia.

Hotel, Allentown, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Lehigh Hotel, care of Kaeppler & Kester, Allentown, Pa. Brick, stone, steel, concrete, 10 stories, 110x145 feet, slag roof, hardwood floors, elevators, steam heat, electric light, tile and marble work. Contract awarded Consolidated Engr. Co., Baltimore, Md.

Hotel Building (alts. and add.), Pittsburgh, Pa. Architects, Webber & Wurster, 1530 Locust street, Philadelphia. Owners, General Forbes Hotel, on premises. General alterations to present building and 13-story add. Contract awarded Longacre Const. Co., 345 Madison avenue, New York.

Office, Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, W. T. Scruman, care of architect. Brick, steel, 3 stories, 45x80 feet, slag roof, pine floors. Contract awarded to Rozelle Brothers, Wyoming, Pa.

New Jersey Construction News

Repair Shop, Northwest Corner Maryland and Arctic avenues, Atlantic City, N. J. Arrchitect, Frank Laison, 10 South Tennessee avenue, Atlantic City, N. J. Owners, City of Atlantic City, J. McNamee, City Clerk, Atlantic City, N. J. Brick, stucco, stone, steel, 2 stories and basement, 110x32 feet (plumbing, heating, electric separate bids), slag roof, oak floors, elevators, painting and glazing, tile work, rolled steel sash and skylights, tin-covered doors, ornamental iron work. Certified check, $1,500. Architect taking bids due April 11th.

Hotel, Atlantic City, N. J. Architects, Lockwood, Greene & Co., Boston, Mass. Owners ,Seaside Hotel Co., Pennsylvania avenue and Boardwalk, Atlantic City, N. J. Architects taking bids due March 16th.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Route No. 18 (North), Section No. 2, Alpine to New York State Line, Bergen County, 9,000 cubic yards earth excavation, 9,000 cubic yards rock excavation, 22,564 cubic yards borrow, 24,952 square yards 8-inch double line reinforced concrete pavement. Owners taking bids due March 22nd at noon. Deposit of $10.00 required. Certified check 10 per cent. of bid.

Apartment Hotel, Atlantic City, N. J. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owner, name withheld. Fireproof, 15 stories, 50x115 feet, built-up roof, hardwood and composition floors, tile and marble. Preliminary plans in progress.

Apartment (alts. and add.), Mississippi avenue, Atlantic City. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, Thomas Lucci, care of architect. Brick, stucco, 1 story, 27x42 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Astor Apartments (add.), Atlantic avenue, near Missouri avenue, Atlantic City, N. J. Owners, Ruffu Corp., 2024 Atlantic avenue, Atlantic City, N. J. Owner, A. F. Amodio, Segal Building, Atlantic City, N. J. Brick, 4 and 5 stories add., 62½x125 feet, Barrett roof, hardwood floors, elevators, heating extension, electric light, tile and marble. Plans in progress

Apartment, Ventnor, N. J., $90,000. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, W. S. Higbee, 112 South California avenue, Atlantic City. Semi-fireproof, steel, 3 stories, 40x80 feet, slag roof, hardwood floors, hollow tile, hot water heat, electric light, metal lath, tile work, iron stairs. Plans in progress.

Apartment and Store (alts. and add.), 12 South Missouri avenue, Atlantic City. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, S. Gasbarro, on premises. Brick, 4 stories, 25x60 feet, slag roof, hardwood floors, heating extension, electric light, tile and marble. Plans in progress.

Residence, West Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, Charles H. Higgate, care of architect. Brick, frame, stucco, 2½ stories, 58x32 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Masonic Temple, Palmyra, N. J. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Owners, Compass Club, J. A. Hartley, Chairman, Palmyra, N. J. Brick, 3 stories. Sketches being drawn. Too early for details.

Factory, Twenty-eighth and Saunders streets, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Camden Carpet Cleaning Co., 120 Arch street, Camden. Brick and steel. Preliminary plans in progress.

Garage, Fifth, Federal and Arch streets, Camden, N. J. Archtects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, name withheld. Fireproof, brick, steel, concrete. Architects selected. Sketches being prepared.

Residence, Haddonfield, N. J., $30,000. Architect, A. B. Gill, 312 Market street, Camden, N. J. Owner, name withheld. Stone, 2½ stories, 48x30 feet, slate roof, oil burning heat, tile work. Plans in progress.

Servants' Wing, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Home for Indigent Widows and Single Women, Trenton, N. J. Brick, steel, 2 stories, 40x60 feet, slate roof, hardwood floors, heating extension, electric light, metal lath, tile and marble work. Plans in progress.

Residence, Haddonfield, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Dr. O. N. Hinsky, Haddonfield, N. J. Brick, cinder block, 2½ stories, slate roof, hardwood floors, tile work, electric work. Plans in progress. Architects ready for bids.

Spanish Bungalows (48), Fox Manor, West Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, Benjamin Fox, Casino, West Atlantic City, N. J. Stucco and frame, 1½ stories, 30x48 feet, tile roof, hardwood floors, electric light, tile work. Owner will build.

Store and Apartment (alts. and add.), 927 East State street, Trenton. Architect, L. A. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, H. Sackin, 863 Quinton avenue, Trenton, N. J. Brick, stone, 3 stories, 25x90 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile work, fire doors. Architect ready for bids.

School, Westville, Depford Township, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Depford Township School Board, Westville, N. J. Brick, 1 story and basement, 4 rooms, slate roof, pine floors, steam heat, electric light. Owners will be ready for bids next week.

School (alts. and add.), West Depford Township, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Depford Township School Board, Westville, N. J. Brick, steel, 1 story and basement, 2 rooms, slag roof, pine floors, steam heat, electric light. Owners will be ready for bids next week.

Store Front (alts.), 6 South Broad street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Harry Harrold, 6 South Broad street, Trenton, N. J. General alterations, rubber tile and walnut floors, electric light, tile and marble, bronze work. Architect taking sub-bids.

Physics Building, New Brunswick, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, New Jersey Agricultural College, Trenton, N. J. Fireproof, 3 stories, 50x140 feet, slag roof, cement, rubber tile and terrazzo floors, roof ventilators, steam heat, electric light, tile and marble, rolled steel sash and skylights. Architects ready for bids.

Pier and Auditorium (add.), Ventnor, N. J. Architect, S. G. Dobbins, Segal Building, Atlantic City, N. J. Owners, City of Ventnor, care of architect. Frame, stucco, 1 story, 76x100 feet, 200x100 feet, tile roof, hardwood floors, metal partitions, electric light, tile work. Architect ready for bids. (Note correct architect's name.)

Bank, Atlantic avenue, Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, H. H. Krechmer, 2304 Atlantic avenue, Atlantic City. Stone, stucco, 2 stories, 13x70 feet, slag roof, marble floors, hot water heat, electric light, tile work, bank fixtures, bronze work, vault, ornamental iron work. Owner will sublet.

Residence (double), 1215 Magnolia avenue, Camden, N. J., $11,000. Architect, Arthur B. Gill, 312 Market street, Camden, N. J. Owner, Philip Kalikman, 126 North King street, Camden, N. J. Brick, 2 stories, 16x44 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

School (alts. and add.), Ventnor City, N. J. Architects, H. E. Stout and William B. Riebenack, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, Ventnor City, N. J. Brick, reinforced concrete, steel, cut stone, 2 stories and basement, 59x146 feet, slag roof, cement and maple floors, hollow tile, painting and glazing, safety treads, metal weather strip, waterproofing and dampproofing, metal lath, tile and marble, rolled steel sash, kalamein doors, bond, floor hardener, iron stairs, ornamental iron work, wood files, area gratings, metal lockers, linoleum floors (plumbing, heating and electric work separate). Certified check, $1,500. Time of completion, 180 days. $50 per day penalty.. Owners taking bids due March 15th.

Masonic Home, Willow and Front streets, Trenton, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Trenton Masonic Association, S. L. Kauffman, Broad Street Bank Building, Trenton, N. J. Indiana limestone, steel, concrete, 3 stories, 98x190 feet, flat roof, hardwood and composition floors, hollow tile, steam heat, electric light, metal lath, tile, marble and terrazzo work, ornamental iron work. Architects taking bids due March 18th.

Schools (4), Clementon, Lindenwald, Somerdale and Garden Lake, N. J. Architect, Thomas Seephen, Temple Building, Camden, N. J. Owners, Clementon Township School Board, G. W. Mayberry, secretary, Laurel Springs, N. J. Brick and concrete, Clementon Heights, 2 stories, 62x72 feet; Garden Lake, 2 stories, 62x72 feet; Lindenwald, 1 story, 84x50 feet; Somerdale, 1 story and basement, 62x72 feet; slag roof, roof ventilators, fire doors, reinforced concrete stairs (heating, plumbing and electric work separate). Owners taking bids due March 22nd.

New Jersey Contracts Awarded

Residence and Garage, Southwest Corner Pacific and Astor road, Wildwood Crest, N. J. Architectes, Folsom, Stanton & Graham, 10 S. Eighteenth street, Philadelphia. Owner, George S. Dunlap, care of architect. Brick, limestone, 2½ stories and basement, 41x41 feet, garage, 1½ stories, 20x24 feet, plumbing, hot water heat, variegated slate roof, tile, oak and pine floors, electric light, Penetrite waterproofing, area gratings, linoleum floors. Contract awarded Charles G. Glenn, Wildwood, N. J.

Bank, Broadway and Ferry avenue, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, South Camden Trust Co., Clarence Hayden, Camden, N. J. Brick, limestone, concrete, 1 story, mezzanine and basement, 64x88 feet, slag roof, cement floors, electric light, metal lath, marble work, bank fixtures, metal window guards, ornamental iron work. Contract awarded to J. W. Draper, 436 Haddon avenue, Camden, N. J.

Bungalows (50), Penn Beach, N. J. Architect, private plans. Owner, name withheld. Frame, 1 story, 20x30 feet, rubberoid roof, pine floors, plumbing, electric light. Contract awarded C. W. Leossin, Pennsville, N. J.

Residence and Garage, Atlantic City, N. J. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owner, J. Morris Hewitt, 17 North Austin avenue, Atlantic City. Brick, 2½ stories, 29x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Edward S. Collins, Ventnor, N. J.

Building (alts.), 929 South Fifth street, Camden, N. J., $5,500. rchitect, A. B. Gill, 312 Market street, Camden, N. J. Owner, E. O. A. Tomaselli, care of architect General alterations. Contract awarded to A. G. W. Bishop, Philadelphia.

Store and Residence, 533 Arch street, Camden, N. J., $7,000. Architect, private plans. Owner, H. C. Lounsberry, 539 Arch street, Camden, N. J. Brick and block, 2 stories, 16x60 feet, tin roof, hot water heat, electric light, pine floors. Contract awarded to Harry Hinchman, 223 Arch street, Camden, N. J.

Residence, 3262 Lemuel avenue, Camden, N. J., $3,500. Architect, Harold A. Allen, 526 Stevens street, Camden, N. J. Owner, Joseph Martin, care of architect. Frame, 1 story, 24x33 feet, slate surface roof, pine floors, electric light. Contract awarded to Elmer A. Yost, 315 Mechanic street, Camden.

Miscellaneous Construction News

Residence and Garage, Reynolda Park, Winston-Salem, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, George W. Coan, Jr., Esq., care of architect. Hollow tile, stucco, 2½ stories, 100x35 feet (plumbing, heating and electric reserved), slate roof, hardwood floors, metal lath, tile work. Plans completed.

Residence, Garage and Servants' House, Winston-Salem, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, Dr. Fredric M. Hanes, care of architect. Brick, 1½ stories, irregular in size (vapor heat, electric light, tile work, plumbing reserved), metal lath, slate roof, hardwood floors, gypsum block partitions, fireproof floors. Plans in progress. Architect will be ready for bids March 15th.

Community Center, Sixth and French streets, Wilmington, Del. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, Adas Kodesck, care of architect. Brick, steel, 4 stories, 74x109 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, tile and marble, iron stairs, ornamental iron. Architect ready for sub and general bids.

Toch Bros., Inc., manufacturers of R. I. W. Waterproofing and Dampproofing, have opened an office in the Bourse Building, Philadelphia.

The R. I. W. Dampproof Resisting Paint Company have opened an office at the same address.

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not. Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the would hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising, or advertising from an emotional standpoint.—Elbert Hubbard.

(Continued from page 148)

Quarry tile is cheaper than faience tile and may be obtained red brown and gray shades. This tile has a dull surface and is widely used for floors. It can be used for both hearth and facing and it can be made to stand out strikingly by using mortar of a darker color. In addition to faience and quarry tile are ceramic, mosaic, vitreous, semi-vitreous, paving, flint, plastic and numerous others, each very good for certain purposes. It is best to consult your local dealer before buying, as some tiles are more easily obtained in some districts than others.

Kasota stone, a brownish rough surfaced material, is proving popular in the Northwest for fireplaces of informal type. Sometimes a border of this stone in uneven shapes is placed around the edge of the opening and the plaster is carried down to this stone. With this treatment the mantel shelf may be omitted and often a tapestry is hung on the chimney breast for decoration.

Face brick is excellent for the mantel in many instances. Much depends on the color of the mortar joints for the effect produced. Brick is more easily laid up than other materials and this makes its use highly desirable where expert labor is not available. There is no end to the patterns that can be devised for both the hearth and facing.

The colonial mantel almost always has a wooden frame around the opening separated from the edge by a border of tile marble or brick. Sometimes pilasters are used at the sides. On a colonial mantel both the shelf and molding should be light. The mantel shelf can be omitted to fit in with certain architectural treatment as mentioned above. In the western style home with broad heavy lines the shelf may be a three inch plank with brackets or with brick corbels in place of brackets.

The hearth is an important consideration both from the standpoint of fire protection and appearance. A hearth should not be less than eighteen inches wide measured out from facing of mantel and should extend at least a like distance past the edge of the opening. Narrow hearths may seem novel but are not advisable as there is not enough room to set a fire screen on and a spark may easily reach t he wood flooring. The hearth may be raised above the floor level and looks well when thus treated. This is not a good thing to do in a small room, however, as it reduces the floor space.

There are unlimited possibilities in fireplace design and it is regrettable not to get an attractive one with the excellent materials available.

—*Keith's Magazine.*

Reference Directory for Architects, Builders and Owners

ACCOUNTANT.
.. Landergin.....5523 Hadfield St., Phila.
ARCHITECTURAL IRON WORK
.aker City Art Metal Works,
2445 N. Second St., Phila.
ARTESIAN WELLS.
ldpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.
ARTISTS' AND ARCHITECTS' SUPPLIES.
›bbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.
BLUE PRINTS.
ue Print Shop.....1520 Sansom St., Phila.
›bbins, Chas. H., Co.....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.
BLUE PRINT PAPER.
ue Print Shop.....1520 Sansom St., Phila.
›bbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.
BOILER AND PIPE COVERINGS.
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.
BRICK.
x, Janeway, & Co..Real Estate Trust Bldg., Phila.
BRICK (Face, Common, Paving).
etcham, O. W. .....121 N. 18th St., Phila.
BUILDERS.
tchell Bros. .....2125 Race St., Phila.
seph Rotornado.....4740 Milnor St., Phila.
BUILDING BLOCKS.
ctor Concrete Products Co.,
Primos Station, Del. Co., Pa.
BUILDERS' SUPPLIES.
rvice Supply Corporation,
20th and Venango Sts., Phila.
ıe Van Sciver Corporation,
The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CABINET WORK.
ıskey Mfg. Co. ..Columbia and Howard St., Phila.
CAST STONE
neland Architectural Cast Stone Works,
Vineland, N. J.
CEMENT.
ıe Van Sciver Corporation.
The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CEMENT WORK.
Lauro, John .....55 E. Mermaid Lane, Phila.
arsch, Wm. F. .....Narberth, Pa.
assiah, Frederick.Juniper and Cypress Sts., Phila.
COLD STORAGE (Insulation and Covering)
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.
COLUMNS (Metal).
earce Fireproof Co. .....1911 N. 2nd St., Phila.
CONCRETE SEWER PIPE.
roudsburg Septic Tank Co..328 Chestnut St., Phila
CONCRETE WORK.
arsch, Wm. F. .....Narberth, Pa.
assiah, Frederick.. Juniper and Cypress Sts., Phila.
CONTRACTORS' EQUIPMENT
evitt, Paul J. .....1101 S. 2nd St., Phila.
e T. Ward Co. .....617 Filbert St., Phila.
rvice Supply Corporation,
20th and Venango Sts., Phila.
CORK FLOORING
lvesey, John R. Glenwood Ave. w. of 22nd St., Phila.
CURTIS WOODWORK.
llingham Co. ...Norris and Richmond Sts., Phila.
DAILY BUILDING NEWS.
uilding News Pub. Co. ...1530 Chestnut St., Phila.
DAMPPROOFING.
nti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
arnett Bingswanger.....829 N. 3rd St., Phila.
›ncrete Waterproof Paint Co..829 N. 3rd St., Phila.
aster Builders Co., ...Otis Bldg., Phila.
ruscon Laboratories.....1505 Race St., Phila.
DOOR BEDS
urphy Door Bed Co.....512 Bulletin Bldg., Phila.
DRAWING MATERIALS.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F. Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.
EXCAVATING.
arsch, Wm. F. .....Narberth, Pa.
cCarrick Bros.....3240 N. Fox St., Phila.
anitary Engineering Co.....40 S. 52nd St., Phila.
FENCES.
ettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
otts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
eisbord, Wolf .....4437-43 Ludlow St,. Phila.
FINANCING (BUILDING)
›mmercial Advance Corp., 1011 Chestnut St., Phila.
ortgage Extension Corp..1011 Chestnut St., Phila.
FIREPLACE EQUIPMENT.
. R. Rosen.....5327 Market St., Phila.
FIREPROOFING.
earce Fireproof Co. .....1911 N. 2nd St., Phila.
FLAG POLES.
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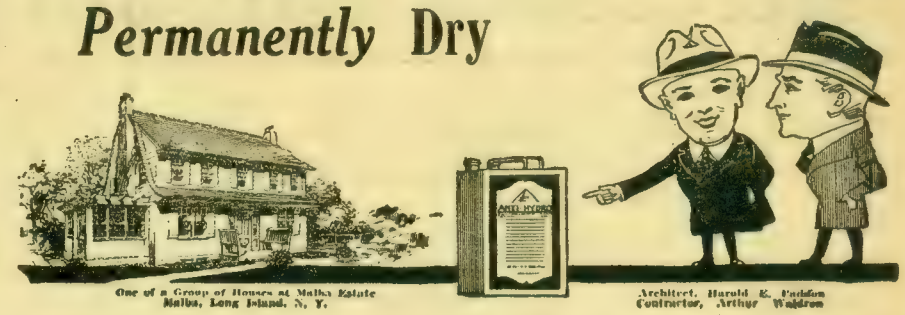
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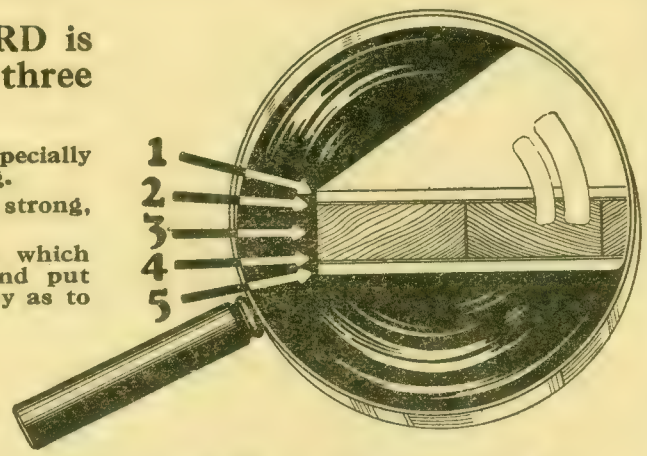
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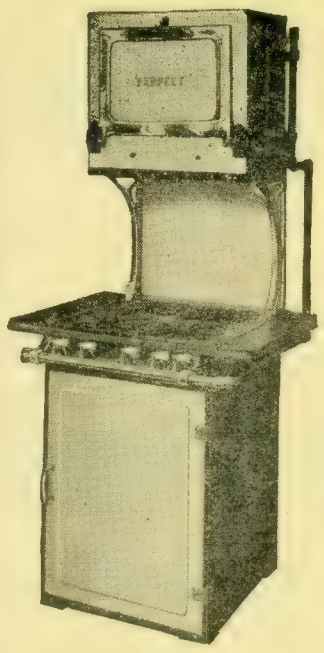
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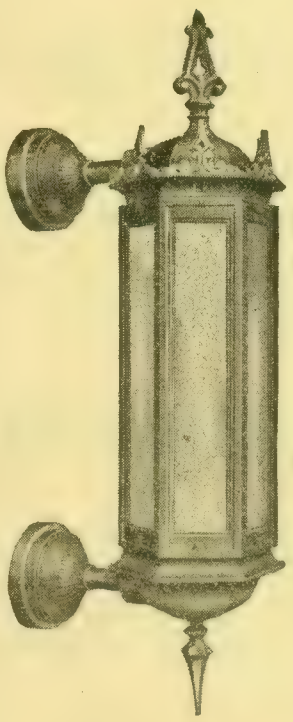
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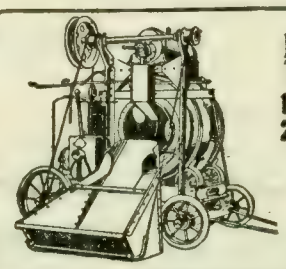
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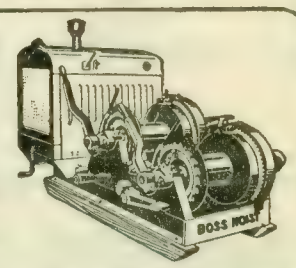
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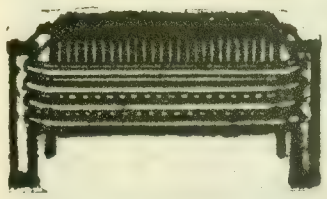
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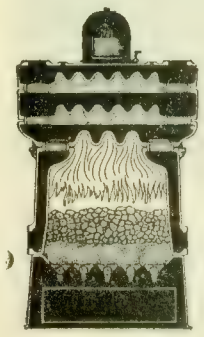
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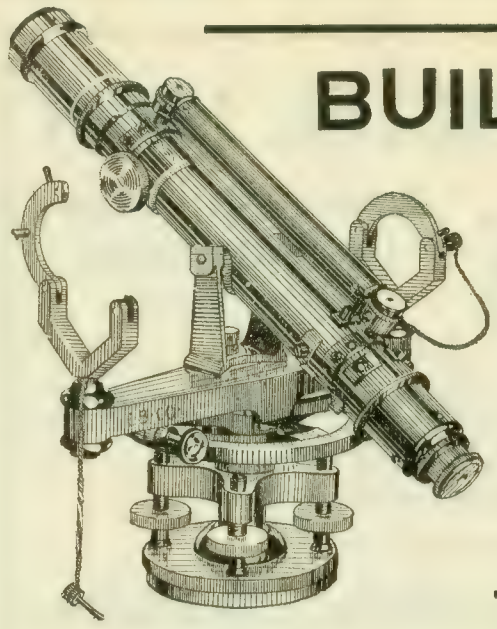
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As The Editor Sees It

FIFTY WAYS TO LOWER HOME BUILDING COSTS

By Robert T. Jones, A. I. A.
Technical Director The Architects' Small House Service Bureau of the United States.
(Continued from previous issue)

Recently I told you of twenty-five ways by which you could decrease the first cost of building your home. You probably deduced from the story that after all there are only two ways to achieve the necessary reductions.

The first of these is to strike a good bargain with a high grade contractor—to find a man who will build your house so that it will be an honor to him and a safe investment for you at a price below what others would charge. Whether this lower price comes from a decreased profit to the contractor, or from savings he is able to make through better management in the buying of materials and in the direction of workmen, is immaterial to you so long as the contractor is really high class, gives you a good house and does build at a lower price.

The second way to reduce costs, for the time being at least, is to do without those things that are not absolutely essential. I advised you also to choose the middle grade of materials, the more democratic devices, with the proviso that nothing cheap, shoddy, or weak be used.

You Must Decide

This time I am giving you twenty-five more ways to lower home building costs. It may not be necessary for you to apply every one of them to your particular problem. We hope not. They are merely suggestions. Here they are:

26. A built-in refrigerator with outside icing door and raised platform is more expensive than a separate refrigerator not so advantageously equipped. A refrigerator waste is also an an extra expense. The type of refrigerator must be selected with an eye to the limits of your purse. You may save from $25 to $50 on this item.

27. To the mechanically inclined American the idea of an electric refrigerator installed in the home is particularly intriguing. However, it is not essential that this equipment, no matter how desirable, be installed at first. It may be classed properly as one of the worth while devices you will provide for your home when you have the money for it.

Your Purse the Brake

28. Perhaps you do not need to finish all the rooms just now. Omitting the plaster, finish flooring, and wood trim in rooms not needed at first will save something. It would be cheaper in the long run to have all the work done at once, but your ready funds may not permit it.

29. When moldings, kitchen cabinets, doors, and sash are supplied from "stock," they cost less than devices of this kind made to special designs. If you are trying to keep down costs see what your contractor can get ready made from his local lumber dealer's stock. "Special" millwork always costs much more.

30. Hardwood floors cost more than those of soft wood. In every kind of wood there are various grades with varying degrees of expense. For example, as between the first and second grades of plain oak flooring, there may be a difference of $50 or more in the cost of build ing your home. The medium grades are durable, and if the millwork is well done, and you have good workmanship with good painting, staining, and filing, appearances will be fine.

31. The cost of wood trim varies as does the cost of flooring. Soft wood is less expensive than hardwood for interior finishing. Soft woods such as fir and pine can be used to advantage and at a

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saving, especially if they are painted. Some of the inexpensive woods, such as cypress or poplar, stained or oiled, are beautiful. As between hardwood and soft wood trim for your home, there may be a difference of $50 to $100.

32. Before you have the woodwork finished, find out about the relative expense of stain and varnish, painting, and enamel work. The finish of stain and varnish costs less than paint. Paint costs less than enamel. There may be a difference of $100 or more in the last two methods. If you enamel only part of the house and paint or stain the remainder, your expense will be decreased proportionally.

33. A bare plastered wall finished smooth is not a pleasing sight, especially to the housewife who loves color and pattern. And yet here is a part of your home making that can be postponed. In the meantime if walls settle a little and the plaster cracks, repairs can be made before decorations are finally applied. The actual reduction in the total cost of building is worth while, especially if you do not have the ready money.

34. The quality of glass used in your house will affect building costs directly. Plate glass costs more than ordinary window glass. Mirrored doors are an extravagance for anyone who must exercise strict economy. French doors, however beautiful, cost money. Perhaps you can omit them for the time being, especially from such openings as the one between the hall and living room.

Extras Add to Costs

35. A clothes chute is certainly a convenience, but it could hardly be called an absoute necessity. Propery built of metal and with self-closing doors, it must cost $25.00 or more.

36. Like practically all the other materials that go into a house, plumbing fixtures are manufactured in several materials—vitreous china, solid porcelain, or iron coated with enamel. Each of these has its special qualities, but the chinaware is more expensive than enamled iron. The extra expense for chinaware is balanced by its advantages in the way of appearance and ease of cleansing but the enameled iron is also durable and costs less.

37. The simple leg tub has practically gone out of style, having been displaced by the recess type, but the latter not only costs more in itself but requires an extra expense in framing and plumbing. A recess tub may cost as much as $50 more than a leg tub. In the different materials and designs in which this fixture is offered there is a wide range of expense.

38. Lavatories cost more or less depending upon the size and style and the material of which they are manufactured. Between a solid porcelain lavatory and one in enameled iron there may be a difference of $50. The substitution of an ordinary chain and plug waste device in place of the "pop-up' waste may save $5.00.

Compare Like Things

39. There are a great many types of water closets. They are obliged to be made of vitreous chinaware. The simple ones are satisfactory if well made. You can save $25 to $50 by selecting a simple and economical fixture of this kind.

40. The kitchen sink is usually made of enameled iron. Sinks with aprons or with drain boards cast on are more expensive than those without either or both of these. A wooden drainboard is less expensive than one of enameled iron. Combination hot and cold water faucets will cost from $5 to $10 more than separate faucets.

41. In the laundry you may spend various sums for tubs depending on what they are made of and their size and number.

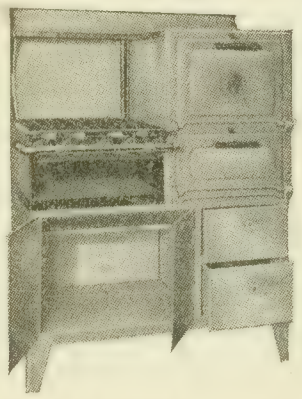
42. Hot water heaters present a fine opportunity for you to spend your money or economize it, depending upon how easily you are satisfied. Those types of hot water heaters which operate so that there is always a supply of hot water ar-

(Continued on page 176)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Office Building, Duncan, Sepviva, Church and Aramingo avenue, Philadelphia. Architect, private plans. Owners, Montgomery Iron & Steel Co., W. Nelson Mayhew, Samuel Frank, 918 Berks street, Philadelphia. Brick, steel, cast stone, 2 stories, 50x50 feet, slag roof, gas steam heat, electric light, slag roof, concrete and maple floors, plumbing, rolled steel and wood sash. Owners taking bids due as soon as possible.

Store and Garage, Northwest Corner Passyunk and Lambert street, Philadelphia. Architect, Henry Coscia, Broad and Chestnut streets, Philadelphia. Owner, R. D. Linge, 2870 South Fifteenth street, Philadelphia. Brick, 2 stories, 15x41 feet, slag roof, plumbing, hot water heat, electric lighe. Owner taking bids due as soon as possible.

Residence (alts. and add.), Fitzwater and Warnock streets, Philadelphia. Architect, Henry Coscia, Broad and Chesenut streets, Philadelphia. Owner, A. Sella, on premises. Architect taking bids due as soon as possible.

Store (alts.) and Garage, Northwest Corner Twelfth and Christian streets, Philadelphia. Architect, Henry Coscia, Broad and Chestnut streets, Philadelphia. Owner, T. G. Laddie, on premises. General alterations, slag roof, composition floors, cement work, copper bulks. Architect taking bids due as soon as possible.

Hospital Building, Sesqui-Centennial Grounds, Philadelphia. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Health, G. H. Biles, City Hall. Plans in progress. Will be ready for bids in one month.

Residences (2), East side Silverwood street, North of Levering street, $4,000 each. Architect, private plans. Owner, G. A. Klugh, 4636 Mansion avenue, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Factory, 4630-32 Paschall avenue, Philadelphia. Architect, private plans. Owners, Turnbull & Cornell, 15 South Twenty-first street, Philadelphia. Brick, 2 stories, 50x50 feet, irregular, slag roof, cement floors, electric light. Owners will build.

Warehouse, Tenth and Locust streets, Philadelphia. Architect, Ralph B. Benckert, Bellvue Court Building, Philadelphia. Owners, Horn & Hardart, on premises. Brick, steel, concrete, 8 stories. Preliminary plans in progress.

Apartment House (add.), Wissahickon avenue and School lane, Philadelphia. Architect, private plans. Owners, Alden Park Manor Co., Inc., Kenneth M. De Vos Co., on premises. Brick, stone, steel, 9 stories, electric light, tile and marble work, hardwood floors, elevators, swimming pool, kitchen equipment, refrigeration. Plans in progress.

Delaware River Yards, Philadelphia. **Elimination of Grade Crossings,** Manayunk, Philadelphia, $6,000,000. **Ferries (2),** Philadelphia and Camden. **Miscellaneous Shops, Car Repair Shop, etc.,** Reading, Pa., $4,000,000. Architect, Samuel T. Wagner, Twelfth and Market streets, Philadelphia. Owners, The Reading Co., Twelfth and Market streees, Philadelphia. Work contemplated. Preliminary sketches in progress.

Buildings (2), Northwest Corner Fifteenth and Parrish streets, Philadelphia. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, K. Balin, on premises. Brick, 3 stories, 15x50 feet, 15x35 feet, slag roof, hardwood and cement floors, hot water heat, electric light. Plans in progress. Architect will be ready for bids in a few days.

Alterations, 5207 Market street, Philadelphia. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, Morris Goodstein, care of architect. General alterations, third story add. Plans in progress. Architect will be ready for bids in 10 days.

Residence (alts. and add.) and Garage, Prospect avenue, Melrose Park, Pa. Architect, Edwin Schoeppe, 316 South Fifteenth street, Philadelphia. Owner, name withheld. Stone, residence, alterations, hardwood floors throughout, rubber tile floors, sun porches, conservatory, tile (3) baths, hot water heat, refrigeration, oil burning, plumbing, painting, papering, plastering, electric light, garage, 1 or 2 stories, 28x30 feet, tile roof. Plans in progress. Architect will be ready for bids in three weeks.

Alterations to Building, Southeast Corner Thirteenth and Chancellor streets, $25,000. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Jules Junker, 211 South Thirteenth street, Philadelphia. Lessees, Davis & Nahikian, 201 South Thirteenth street, Philadelphia. Brick, steel, 4 stories, 30x35 feet, slag roof, wood floors. Plans in progress. Ready for bids in three weeks.

Apartment House, 4807 Chester avenue, Philadelphia. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, Monty H. Itsynson, 1211 Chestnut St., Room 406, Phila. Brick, steel, 3 stories, 42x127 feet, slag roof, hardwood, composition and marble floors, vapor heat, oil burning, electric light, kitchen equipment, telephones, Murphy door beds, laundry equipment, incinerator. Owner taking sub-bids due at once.

Residences (20), O and Luzerne streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Robert NcConaghy, O and Lycoming avenue, Philadelphia. Brick, 2 stories, 15x38 feet, asbestos shingle, slag and tin roof, hardwood floors, hot water heat, electric light, metal lath, tile work, cement work, garages in basement. Owner ready for sub-bids.

Residences (20), Huron avenue and Jenkintown road, Philadelphia. Architect, private plans. Owner, M. J. Reiser, 4238 Old York road, Philadelphia. Cinder block, brick, 1 and 2 stories, various sizes, mill work, concrete foundations, hot water heat, electric light, tile and marble work, steel sash, slag roof, hardwood floors, pottery, foundation fountains, stucco, plaster. Owner taking sub-bids due April 1st.

Street Paving, Huron avenue and Jenkintown road, Philadelphia. Owner, M. J. Reiser, 4238 Old York road, Philadelphia. Macadam. Owner taking bids due April 1st.

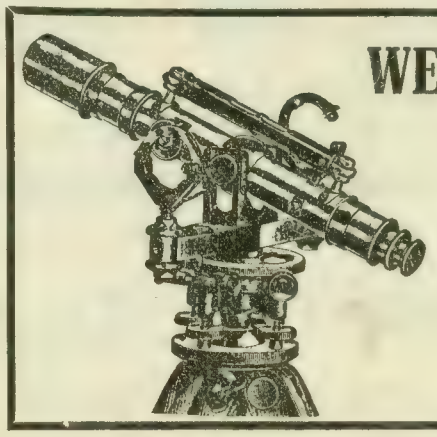
Show Room and Apartment (alts. and add.), 5809-11 Torresdale avenue. Architect, Edwin Schoeppe, 316 South Fifteenth street, Philadelphia. Owners, Andy Newton, Inc., Chevrolet Agency, on premises. Brick, 2 stories, 60x35 feet, tile roof, rubber tile and hardwood floars, plumbing, plate glass, copper bulks, hot water heat, electric light. Owners taking sub-bids at architect's office due March 19th.

Manufacturing Building (add.), Eleventh and Brandywine streets, Philadelphia. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owners, E. J. Schoettle Co., J. C. Bayne, secretary, 533 North Eleventh street, Philadelphia. Reinforced concrete, brick, steel, 9 stories and basement, 52x64 feet, wing 18x36 feet (plumbing, mechanical plant, sprinkler reserved), electric light, Barrett Specification roof, cement and wood block floors, architectural terra cotta, ornamental iron work, floor hardener, bond, hollow metal doors and sash, precast stone, bluestone. Architect taking new bids due March 18th.

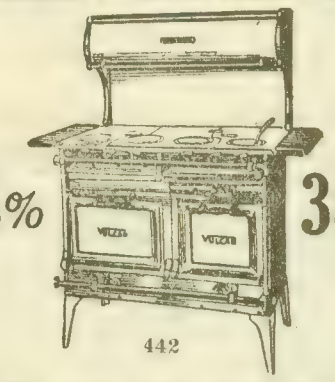
Pumping Station, Sewage Disposal Plant, Richmond street and Wheatsheaf lane, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Engineers, City Hall. Reinforced concrete, brick, steel, 3 stories, 150x82 feet (plumbing, heating, electric separate), slag roof, cement floors, hollow tile work, safety treads, roof ventilators, metal lath, rolled steel skylights, rolled steel doors, bond, ornamental iron work, iron stairs, hollow tile, safety treads, roof ventilators, painting and glazing, mastic waterproofing, dampproofing, architectural terra cotta, cast iron valve pipe, electric conduit, paving, granite block paving, vitrified block paving, concrete curbs. Owners taking bids due March 31st.

Apartment (add.), West Coulter street, Tacony and Earlheim terrace, Germantown, Philadelphia. Architect, Jacob Naschold, 5234 North Second street, Philadelphia Owner, Mr. I. D. Mullen, 107 Queen Lane, Germantown.

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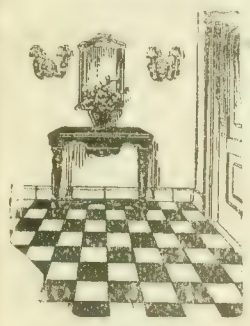


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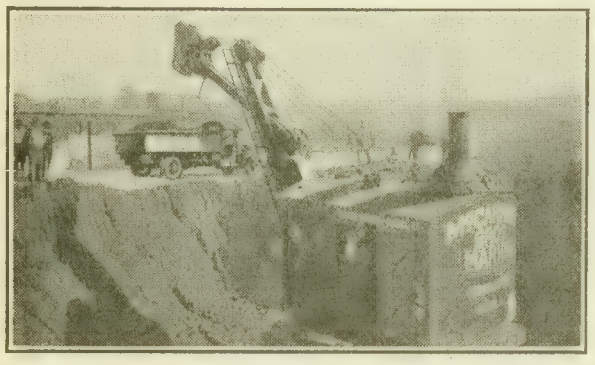
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Store Building (alts. and add.), 931-37 Market street, Philadelphia. Architect, Harold Holmes, Construction Department, S. S. Kresge Co., care of Mr. Taylor, Benjamin Franklin Hotel, Ninth and Chestnut streets, Philadelphia. Sprinkler, plumbing, concrete and cement work, iron work, steel work, sheet metal work, painting and glazing, metal lath, tile and terrazzo work, steam heat, electric work. Owners taking bids due March 18th.

Bank, Market and Edgewood streets, Philadelphia. Architect, J. Frank Bradley, 1121 Fillmore street, Philadelphia. Owners, William Penn Title & Trust Co., care of architect. Granite, limestone, steel, reinforced concrete, 4 stories and basement, 32x90 feet, slag roof, cement floors, tile and marble work, rolled steel sash, iron stairs, metal lockers, metal toilet partitions. Architect ready for bids.

Residence, 319 South Smedley street, Philadelphia. Architect, John Emlen Bullock, 34 South Seventeenth street, Philadelphia. Owner, John M. Hamilton, care of architect. Brick, 3 stories and basement, 50x16 feet, slag roof, oak and pine and cement floors, linoleum floors. Architect taking bids due as soon as possible.

Building (alts. and add.), Market street, near Forty-second street, Philadelphia. Architect, Charles J. Cummiskey, 86 West Sharpnack street, Philadelphia. Owners, Barry Drum Co., on premises. Brick, tile, coping, reinforced concrete, steel, 5 stories and basement, 51x46 feet (heating, electric fixtures reserved), slag roof, pine and cement floors, hardware, plumbing, metal window guards, metal ceilings, ornamental iron work, iron stairs, bond, hollow metal doors, rolled steel sash, metal lath, electric light, precast stone, caulking, painting and glazing, brass grills, granolithic finish. Architect taking bids due March 19th.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 232 City Hall. Owners taking bids due March 1t8h at noon. Grading, asphalt paving (assessment work), asphalt repaving, redressed granite block repaving, curbs and footway work, Third Highway District, structural steel, wood block, improvements to Broad and Packer avenue intersection, road oils. Certified check 5 per cent. of bid.

Supplies, Philadelphia. Purchasing agent, E. J. Lafferty, 312 City Hall, taking bids due March 19th at noon. Portland cement, paving gravel, torpedo gravel, slag chips, crushed stone, asphaltic cement, Portland cement, concrete, crushed slag and crushed pebbles, bituminous materials, tapping sleeves. Certified check 5 per cent. of bid.

Residences (4), Southwest Corner Bingham and Oakmont streets, $5,500 each. Architect, private plans. Owner, Harry Glaser, 7522 Lawndale street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (2), Edgemont street, North of Croyden street, Philadelphia, $3,500. Owner, Frank Slabek, 2832 Overington street, Philadelphia. Brick, 2 stories, 15x38 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Supplies, Philadelphia Navy Yard. Owners, Bureau of Supplies and Accounts, Navy Department, Washington, D. C. Owners taking bids due March 23rd, 10 A. M. Cement and paint cans, woodworking machinery, brass cocks and cones, to Philadelphia Navy Yard. Apply for proposals to the Supply Officer.

Residences (164), Nedro avenue, Mascher, Rosemary and Fern streets, Philadelphia, $575,700. Architect, private plans. Owner, Charles G. Erny, 3847 North Broad street, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (2), East side Northumberland street, South of Cottman, $8,000 total. Architect, private plans. Owner, John McMullin, 1337 Bleigh street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (2), South side Croyden street, West of Edgemont street, $7,000 each. Architect, private plans. Owner, V. Litvinas, 4344 Thompson street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Bungalow, 8014 Ridge avenue, Philadelphia, $5,000. Architect, private plans. Owner, William Kemper, East Shawmont avenue, Philadelphia. Frame, 1 story, 28 feet 9 inches x 40 feet, shingle roof, pine floors, electric light. Permit granted.

Store and Office (alts.), 709-11 Chestnut street, Philadelphia. Architects, Stetler & Deysher, 1015 Chestnut street, Philadelphia. Owner, Louis M. Lifter, Jefferson Building, Philadelphia. General alterations. Permit granted.

Residence, West side Henry avenue, North of Coulter street, $18,000. Architect, private plans. Owner, Joseph A. Coxe, 5450 German-

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town avenue, Philadelphia. Stone, 3 stories, 32x40 feet, slate roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, North side Manatawna street, West of Ridge avenue, $7,500. Architect, private plans. Owner, William Culp, 784 Manatanna street, Philadelphia. Frame, 2 stories, 31x40 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Garages, 320 to 330 East Clarkson avenue, Philadelphia, $3,000 total. Architect, private plans. Owners, P. and G. J. Hermann, 430 Duncannon avenue, Philadelphia. Brick, 1 story, 11x18 feet each, cement floors. Permit granted.

Garage, Southeast Corner B and Westmoreland streets, Philadelphia, $35,000. Architect, private plans. Owners, Snydman & Co., 2161 Ridge avenue, Philadelphia. Brick, 1 story, 70x240 feet, slag roof, cement floors, electric light. Permit granted.

Residence, 6064 Ridge avenue, Philadelphia, $7,500. Architect, private plans. Owner, Max Meitner, 6064 Ridge avenue, Philadelphia. Brick, 3 stories, 16x35 feet, 15x35 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Bungalow, West side Frontenac street, South of Brighton street, $4,500. Architect, private plans. Owner, T. C. E. Duddy, 1649 Oakdale street, Philadelphia. Frame, 1 story, 32x24 feet, shingle roof, pine floors, electric light. Permit granted.

Residences (2), East side Turner avenue, North of Rhawn street, Philadelphia, $4,000 each. Architect, private plans. Owner, Frank G. Castor, 8204 Frankford avenue, Philadelphia. Brick, 2 stories, 14x38 feet, slag roof, pine floors, hot water heat, electric light. Permit graneed.

Residences (16), Champlost avenue, Fifth street, Widener Place, Philadelphia, $90,000. Architect, private plans. Owner, Louis Braening, Jr., 5126 North Fifth street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (11), Wellington street, West of Leon street, Philadelphia, $49,000. Architect, private plans. Owner, Francis J. Blatz, 337 Brookline Boulevard, Philadelphia. Brick, 2 stories, 16x29 feet, 12x8 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Ice Manufacturing Building, South side Walnut Lane, West of Stenton avenue, $25,000. Architect, private plans. Owner, A. C. Greenewald ,853 North Orianna street, Philadelphia. Stone, 1 story, 114x100 feet. Permit granted.

Warehouse, West side Janney street, South of Tioga street, Philadelphia, $9,000. Architect, private plans. Owners, Cold Blast Feather Co., Janney and Tioga streets, Philadelphia. Iron, 1 story, 60x98 feet. Permit granted.

Residences (2), West side Seventy-eighth St., south of Buist ave., $3,500 each. Architect, private plans. Owners, Stanley Agent, 7638 Buist avenue, Philadelphia. Brick, 2 stories, 16x42 feet, 16x7 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (5), South side Haworth street, East of Torresdale avenue, $3,500 each. Architect, private plans. Owners, Louis Mengert & Bros., 5703 Torresdale avenue, Philadelphia. Brick, 2 stories, 14x38 feet, 14x7 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (40), Eighteenth street, Stenton, Chelten and Medary avenues, **Stores (4),** $290,000. Architect, private plans. Owner, Louis A. Benham,, 5213 Chestnut street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (7), North side Magee street, East of Bingham street, $31,500. Architect, private plans. Owners, Foreman & Ludwig, on premises. Brick, 2 stories, 16x28 feet, 12x5 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (4), Edmund and St. Vincent streets, Philadelphia, $21,000. Architect, private plans. Owner, Irvine Armstrong, 1809 South Twenty-second street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (6), West side Bingham street, North of Levick street, $4,500 each. Architect, private plans. Owners, E. and W. Young, 5414 Warrington avenue, Philadelphia. Brick, 2 stories, 15x25 feet, 11x10 feet, slag roof, hardwood and pine floors, electric light. Permit granted.

Residences (4), North side Hartel street, West of Walker street, $4,500 each. Architect, private plans. Owner, E. M. Carlston, 3224 Higbee street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, hardwood and pine floors, electric light. Permit granted.

Rooming House (add. and alts.), 515 South Ninth street, Philadelphia, $4,000. Architect, private plans. Owner, Dr. S. Friedenberg, 717 Pine street, Philadelphia. Brick, 3 stories, 12x50 feet, general alterations. Permit granted.

Residences (16), South side Buist avenue, West of Sixty-first street, $3,500 each. Architect, private plans. Owner, Thomas M. Cockerill, 2242 St. James terrace, Philadelphia. Brick, 2 stories, 16x29 feet, 12x8 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

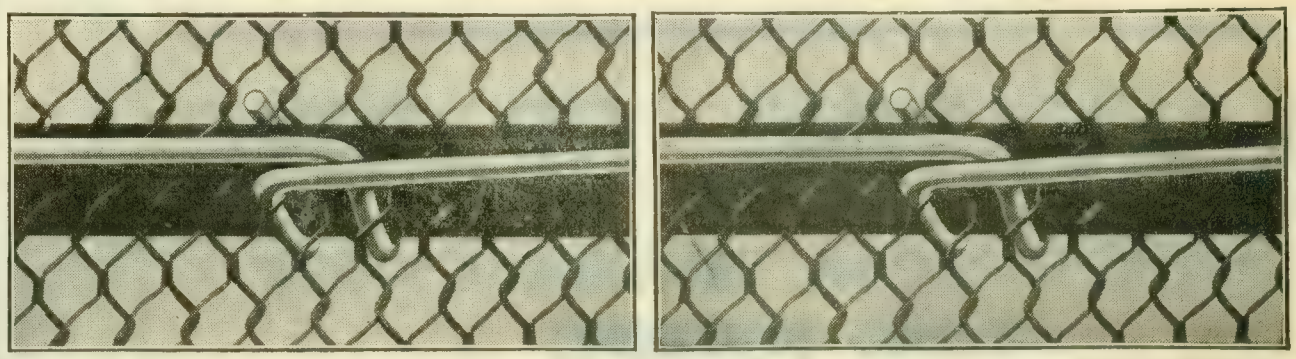
Exposition Building No. 5, Machinery, Mines, Metallurgy and Transportation Building, Northwest Corner Broad and Government avenue, Philadelphia. City architect, John Molieor, 1315 Walnut street, Philadelphia.

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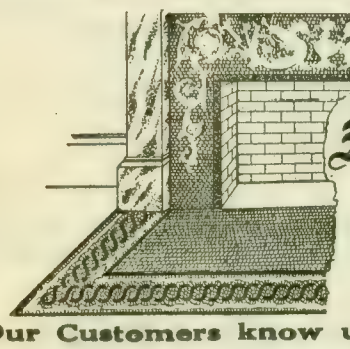
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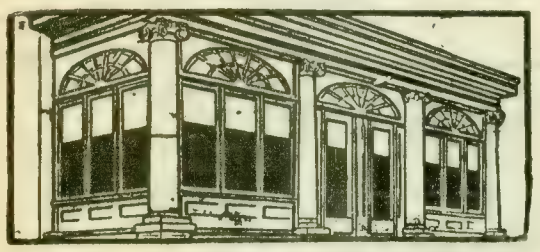
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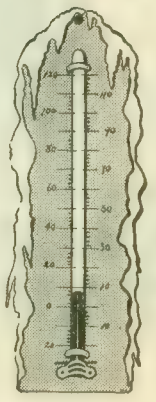
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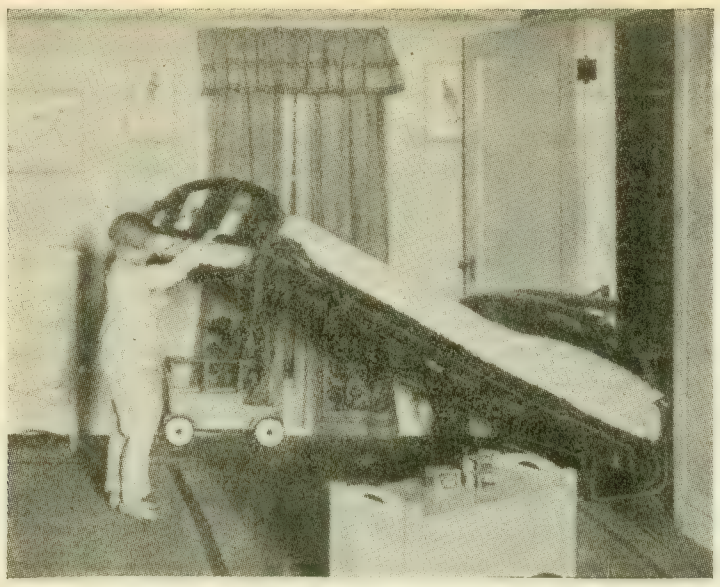
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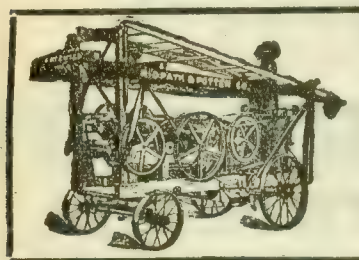
Owners, Sesqui-Centennial Exposition, Asher C. Baker and Freeland Kendrick, City Hall. Low bidders: Turner Const. Co., 1713 Sansom street, $712,500; M. Melody & Son, 1322 Race street, Philadelphia, $740,000; Austin Co., Jefferson Building, Philadelphia, $847,000.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 216 City Hall. Low bidders—Sixty-eighth street, Haverford to Callowhill, Lewis Poleoti, Philadelphia, $12,227.52. Bowman and Vaux streets, Barber Asphalt Paving Co., Philadelphia, $31,618.68. Sherwood avenue and Sixty-ninth street, Barber Asphalt Paving Co., 1600 Arch street, Philadelphia, $22,078.54. Twentieth street, Thorps to Kemble, Mack Paving Co., Nicetown lane and C street, $14,571.95. Twenty-first, Spencer to Godfrey street, Barber Asphalt Paving Co., 1600 Arch street, $8,345.16. Terminal avenue and Eleventh street, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $139,914.32; Mack Paving Co., Nicetown lane and C street, $8,465.53. Dudley street, Hoffman to Wilder street, Barber Asphalt Paving Co., 1600 Arch street, $10,687.38. Susquehanna avenue, Broad to Tenth, Eastern Asphalt Paving, Pennsylvania Building, $36,976.34. Baltimore avenue, Fifty-second to Fifty-fourth, United Paving Co., Thirtieth and Locust streets, Philadelphia, $10,892.72. Carlton street and other streets, Mazzola & Marano, 739 South Seventh street, $19,672.65. Eleventh street, Girard avenue to Susquehanna avenue, Acchione & Canuso, 804 South Twelfth street, Philadelphia, $60,825.20. Sixteenth street, Girard to Susquehanna avenue, United Paving Co., Real Estate Trust Building, $31,910.40. Repairs to Lutz Asphalt Heaters, Good Roads Co., Inc., 1504 Locust street, Philadelphia, $11,500. Hire of 5-ton rollers and trucks, Barber Asphalt Paving Co., 1600 Arch street, $4,350. Hire of erucks for hauling asphalt, Elwood Garlick, 2948 East Venango street. Philadelphia, $24,900. Furnish and deliver ready-mixed Portland cement concrete, West Jersey Sand & Supply C., Beach and Marlbarough, $17,500.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Aeroplane Hangers (2), Aerodome, Fortieth Ward, Philadelphia. Owners, One Hundred and Third Observation Squadron, Pennsylvania National Guard, Thirty-second and Lancaster avenue, Philadelphia. Concrete and steel. Contract awarded William G. Uhler's Sons, Twenty-fifth and Snyder avenue, Philadelphia.

Business Property, 5115-17 Walnut street, Philadelphia, $20,000. Architect, private plans. Owner, C. W. Welliver, on premises. Brick, 2 stories, 110x30 feet, slag roof, hot water heat, electric light. Details undecided. Contract awarded Barton E. Spotts, 905 South Fifty-eighth street, Philadelphia.

College Building and Monastery, Fifty-fourth and City Line, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Joseph's College, Rev. A. G. Brown, president, Seventeenth and Stiles streets. Stone, brick, concrete, steel, limestone, cut stone, 2½ stories and basement, 143x56 feet, wing 141x40 feet, 64x39 feet, 37x77 feet, slag and variegated slate roof, cement and maple floors, terra cotta, metal lath, tile and marble and terrazzo work, rolled steel sash, hollow metal doors, bond, iron stairs, ornamental iron work, membrane and Anti-Hydro waterproofing, dampproofing, bluestone, flagstone, cast stone, area gratings, leaded glass. Contract awarded to John McShain, 1713 Sansom street, Philadelphia.

Alterations, 6075 Drexel road, Philadelphia. Architect, private plans. Owner, Mrs. M. A. Herring, on premises. Electric work, carpentry and mill work, plumbing, plastering, painting. Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

Residence, East side Henry road, South of Coulter street, Philadelphia, $12,000. Architect, Furness, Evans & Co., 315 South Fifteenth street, Philadelphia. Owner, Walter H. Eagan, Stephen Girard Building, Philadelphia. Stone, concrete block and stucco, 2½ stories and basement, 30x38 feet, garage, 34x19 feet (plumbing, heating, electric reserved), metal lath, tile work, ornamental iron work, variegated slate roof, pine, oak and cement floors, hollow tile. Contract awarded to Gordy Brothers, Otis Building, Philadelphia.

Residence, Northeast Corner Bridge and Horrocks streets, Philadelphia, $9,500. Architect, private plans. Owner, A. Marie Schadener ,1304 Foulkrod street, Philadelphia. Brick, 2 stories, 16x60 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to George Rimer, 4842 Hawthorne street, Philadelphia.

Store and Residence, 4715 North Front street, Philadelphia, $7,500. Architect, private plans. Owner, E. W. Hartman, 4713 North Front street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to William Shoemaker, 5726 North Mascher street, Philadelphia.

Store and Office (alts.), 101 East Allegheny avenue, Philadelphia, $5,000. Architect, private plans. Owner, Arthur Greenwood, on premises. General alterations. Contract awarded to Henry P. Schneider, 3713 Old York road.

Garage and Alterations, 2229 North Fifty-third street, Philadelphia. Architect, James

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Patterson, 1947 North Judson street, Philadelphia. Owner, William Crowe, 2229 North Fifty-third street, Philadelphia. General alterations, 1 story, 22x32 feet, electric light, cement work, carpentry and mill work. Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

Church (alts.), 22nd above Fairmount avenue, Philadelphia. Architect, Osborne H. Graves, 112 Merion avenue, Narberth, Pa. Owners, Welsh Presbyterian Church, on premises. Concrete and cement work, hollow tile, plastering, iron work, steel sash, stair work, painting and glazing, hardware, electric work, dampproofing, stone and brick work, limestone, cut stone, area gratings, metal lath, roof ventilators, slate roof. Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

Bottling House (add.), Southeast Corner Second and Edwards streets, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, G. Schmidt & Son, Inc., on premises. Brick, concrete, cut stone, 2 stories and basement, 176x107 feet, slag roof (plumbing, heating, electric, sprinkler reserved), cement floors, hollow tile, shoring, waterproofing, architectural terra cotta, rolled steel sash and skylights, rolling steel and kalamein doors, bond, floor hardener, iron stairs, ornamental iron work, granite block paving, elevator doors, metal lockers. Contract awarded to White Const. Co., Jefferson Building, Philadelphia.

Building (alts.), 138 South Eighth street, Philadelphia, $10,000. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owners, Finance Realty Co., care of builder. Marble and tapestry brick front, tin and slag roof, composition floors, plastering, painting, carpentry and mill work, metal ceilings, plate glass, copper bulks, structural steel, ornamental iron work, hollow metal skylights, tile work. Contract awarded S. Yellin, 222 North Eleventh street, Philadelphia.

Mill Building (add.), 2806 North Delaware and Howell street, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Hellwig Silk Dyeing Co., J. Kneip, president, Ninth and Buttonwood streets. Brick, steel, third story add., 139x33 feet, slag roof, pine floors, elevators, painting and glazing, plumbing, waterproofing, metal lath, hollow metal sash, fire and kalamein doors, ornamental iron work. Contract awarded to J. L. Fawley Co., 1615 Spruce street, Philadelphia.

Residence, Norman lane, Southwest Germantown avenue, Chestnut Hill, Pa. Architects, Hodgen & Hill, 13 South Fifteenth street, Philadelphia. Owner, W. C. Tuttle, 259 South Forty-sixth street, Philadelphia. Stone, steel, 2½ stories and basement, 55x37 feet, variegated slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile and marble work, painting and glazing, metal weather strip, ornamental iron work. Contract awarded Haverstick & Borthwick, Schaff Building, Philadelphia.

Factory, Seventeenth and Cambria streets, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owner, Robert McNeill, on premises. Brick, steel, 4 stories and basement, 60x100 feet (plumbing, heating, electric light, elevator reserved), slag roof, cement floors, ornamental iron work. Contract awarded Murphy-Quigley Co., 1524 Sansom street, Philadelphia.

Building, 4910-12 Fairhill street, Philadelphia, $11,350. Architect, Samuel Abramson, 2313 Walnut St., Phila. Owner, John B. Mahon, on premises. Brick, steel, 2 stories and basement, 20x100 feet, 24x40 feet, slag roof, yellow pine floors, steam heat, electric light. Contract awarded to George P. Clayton, 1817 North Twentieth street, Philadelphia.

Children's Playground, Treasure Island, Sesqui-Centennial Grounds, Philadelphia. Associate arcitects, Tilden, Register & Pepper, 1520 Locust street, and John W. Simpson and Maxwell Ayrtos, both of London, England. Owners, Sesqui-Centennial Committee, care of Captain A. C. Baker, 523 Chestnut street. Frame and stucco, plaster roofs, electric light, landscaping, number of small buildings, park, miniature railway, etc. Contract awarded Humphrys Co., Ltd., London, England.

Miscellaneous Work, Broad and Pattison streets, Philadelphia, $73,000. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Department of Public Works, George H. Biles, Director, Philadelphia. Macadam roads, curbs, granite block, gutters, sodding, grading, concrete piles, flood lights, towers, reinforced steel ticket booth, score boards, temporary lighting, paving, seeding. Contract awarded to Turner Const. Co., 1713 Sansom street, Philadelphia.

Residence, Northeast Corner Second street and Sixty-sixth avenue, Philadelphia, $9,000. Architect, private plans. Owner, Edward Groh, 435 City Line, Philadelphia. Brick, 2 stories, 26x36 feet 8 inches, hardwood and pine floors, hot water heat, electric light. Contract awarded to J. R. Schaeffer, 3731 North Seventh street, Philadelphia.

Theatre (alts.), Southeast Corner Eleventh and Market streets, Philadelphia, $7,000. Owners, Stanley Company, 1916 Race street, Philadelphia. General alterations. Contract awarded to Golder Const. Co., 263 South Fifteenth street, Philadelphia.

Schools, Fifth and Master streets and Fifth and Nedro avenue, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, J. D. Cassell, Nineteenth above Chestnut street, Philadelphia. Contracts awarded—Sixth and Master: William Langhorne, 10 South Eighteenth street, Philadelphia, $419,024; plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, $19,133; heating, D. J. Keating, 2042 Rittenhouse street, Philadelphia, $43,231; ventilating, Gerbrick & Kaufman, 44 North Second street, Philadelphia, $2,495; electric, Walker & Kepler, 531 Chestnut street, Philadelphia, $15,473. Contracts awarded Fifth and Nedro avenue: Kober Const. Co., 34 South Seventeenth street, Philadelphia, $108,773; plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, $5,266; heating, D. J. Keating, 2042 Rittenhouse street, Philadelphia, $5,570; ventilating, Mellon Co., 4415 Ludlow street, Philadelphia, $1,180; electric, J. F. Buchanan, 1904 Sansom street, Philadelphia, $2,345. Contracts awarded Northeast School: William Langhorne, 10 South Eighteenth street, Philadelphia, $9,950; plumbing, F. A. Wackenhut, 3215 Shelburne avenue, Philadelphia, $3,890; heating, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, $388.

Garage, 443 Carpenter lane, Germantown, Philadelphia, $3,900. Architece, J. Linard Conarroe, 225 South Sydenham street, Philadelphia. Owners, Mr. and Mrs. William H. Stuart, on premises. Stone, steel, 2½ stories and basement, 26x26 feet, variegated slate roof, cement floors, painting, glazing, electric light, metal lath. Contract awarded to J. Riley & Son, Forrest avenue, Mt. Airy, Pa.

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Residence, 3528 East Thompson street, Philadelphia, $3,500. Architect, private plans. Owner, S. Ogensbie, 3528 East Thompson street, Philadelphia. Brick, 2 stories, 14x42 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Joseph S. Nagrinski, Jr., 3168 Richmond street.

Storage (add.), 657-59 North Front street (rear), $2,300. Architect, private plans. Owners, E. L. Mansuri Co., 1415 North street, Philadelphia. Brick, 1 story add., 22x36 feet. Contract awarded to A. F. Ruffo Co., 928 Presser Building, Philadelphia.

Residence (alts.), 2834 Stouton street, Philadelphia, $2,000. Architect, private plans. Owner, Anna G. Young, 417 East Somerset street, Philadelphia. General alterations. Contract awarded to Marcellius & Brunnelli, 5016 Thompson street.

Store and Storage (add. and alts.), 1913 South Tenth street, Philadelphia, $2,000. Architect, private plans. Owner, Seraphim Oustood, 1630 Porter street, Philadelphia. Brick, 1 story add., 10x7 feet, general alterations. Contract awarded to Marinucci & Julianno, 1118 Dickson street.

Office and Residence, Southwest Corner Rising Sun avenue and Hellerman street, $15,000. Architect, private plans. Owner, Pauline E. Stalder, 327 East Cheltenham avenue, Philadelphia. Brick, 2 stories, 25x70 feet, hardwood and pine floors, electric light. Contract awarded to Paul A. Stalder, 6440 Rising Sun avenue, Philadelphia.

Store and Storage Building (alts.), Southwest Corner Eleventh and Locust streets, $10,000. Owner, James Ferry, 3861 North Broad street, Philadelphia. General alterations. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

Residence and Store (add. and alts.), 2705 East Cambria street, $4,000. Architect, private plans. Owner, J. Koltis, on premises. Brick, 3 stories add., 20x13 feet, general alterations. Contract awarded to Star Building & Cement Co., 3013 Richmond street, Philadelphia.

Store (alts.), 412-14 Market street, Philadelphia, $17,000. Owner, Mrs. B. Milmond, on premises. General alterations. Contract awarded to Modern Home Rebuilders, 3314 Lancaster avenue.

Residence (add.), 113 Sumac street, Philadelphia, $2,350. Architect, private plans. Owner, George D. Cunliffe, Jr., 113 Sumac street, Philadelphia. Brick, 1 story add., 16x7 feet. Contract awarded to A. Siemenski, 1634 Ruffner street, Philadelphia.

Warehouse, Southeast Corner Delaware avenue and Morris street, $4,050. Architect, private plans. Owners, Bailey Warehouse Co., on premises. General alterations. Contract awarded to Charles Di Sciascio, 2004 South Ninth street, Philadelphia.

Store and Residence (add. and alts.), Northwest Corner Tenth and Jefferson streets, $3,450. Architect, private plans. Owner, Sadie Goldstein, on premises. Brick, 3 stories add., 11x5 feet, general alterations. Contract awarded to B. Arrow, 992 North Seventh street, Philadelphia.

Residence (alts.), 3409 Baring street, Philadelphia, $2,800. Architect, private plans. Owner, Alfred Ferris, on premises. General alterations. Contract awarded to James A. Quinn, 3531 Lancaster avenue.

Boiler Foundations, rear 2135 West Clearfield street, $2,500. Architect, private plans. Owners, Jacob Hornung Brewing Co., on premises. Contract awarded to Frank I. Wintz, Inc., 1618 North Twenty-seventh street.

Gas Holder (alts.), South side Mifflin street, East of Ninth, $30,000. Architect, private plans. Owners, United Gas Improvement Co., Broad and Arch streets, Philadelphia. General alterations. Contract awarded to Cruse-Kemper Co., Ambler, Pa.

Gas Holder (alts.), West side Ninth street, South of Diamond, $15,000. Architect, private plans. Owners, United Gas Improvement Co., Broad and Arch streets, Philadelphia. General alterations. Contract awarded to Cruse-Kemper Co., Ambler, Pa.

Apartment House, Northwest Corner Fourth and Chew streets, Philadelphia, $12,000. Architect, private plans. Owner, Morris Koslovsky, 430 Chew street, Philadelphia. Brick, 2 stories, 25x42 feet, 17x50 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to J. A. Crockett, Southeast Corner Seventeenth and Summer streets.

Residence, South side Emerson street, East of Summerdale street, $8,000. Architect, private plans. Owner, Max Bartel, 3443 North Bodine street, Philadelphia. Frame, 1 story, 24x47 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to John Metzger, 4433 North Third street, Philadelphia.

Residence, 1541 North Beechwood street, Philadelphia, $4,100. Architect, private plans. Owner, Joseph Stein, 2126 Ridge avenue, Philadelphia. Brick, 3 stories, 16x26 feet, slag roof, pine floors, electric light. Contract awarded to Israel Altman, 5400 B street, Philadelphia.

Shed, East side Tulip street, North of Westmoreland street, $4,000. Architect, private plans. Owners, Mohican Pottery Co., on premises. Frame, 49x49 feet. Contract awarded to A. B. MacGregor, 1628 Vine street, Philadelphia.

Store and Residence (add.), Northeast Corner Fifty-third and Florence avenue, $2,100. Architect, private plans. Owner, Benjamin Simms, 3260 North Seventeenth street, Philadelphia. Brick, 1 story add., 16x11 feet. Contract awarded to Simon & Goldrick, 3260 North Seventeenth street, Philadelphia.

Department Store (add.), Southwest Corner Thirteenth and Market streets, Philadelphia, $47,000. Architect, private plans. Owner, John Wanamaker, on premises. Bell tower. Contract awarded to John N. Gill Const. Co., 121 North Broad street.

Apartment House, 118-20 North Fiftieth street, Philadelphia, $15,000. Architect, private plans. Owner, Maurice R. Blackburn, 642 North Eighth street, Philadelphia. Brick, 3 stories, 18 feet 6 inches x 76 feet, 46x19 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to Arthur Roomer, 5214 Diamond street, Philadelphia.

Residence, 1827 Wellington street, Philadelphia, $6,300. Architect, private plans. Owner, Henry Zertz, 3620 York road, Philadelphia. Frame, 2 stories, 24x43 feet, hardwood and pine floors, electric work. Contract awarded to Robert M. Platt, Somerton, Pa.

Bakery, 1226 Ridge avenue, Philadelphia, $6,000. Architect, private plans. Owners, Parkway Baking Co., on premises. General fire repairs. Contract awarded to J. L. Fawley, 1615 Spruce street, Philadelphia.

Building (add.), Allen street, West of Frankford avenue, Philadelphia, $4,500. Architect, private plans. Owners, Ajax Metal Co., Forty-sixth and Richmond streets, Philadelphia. Oil storage building. Contract awarded to M. Ward Easby, 1505 Race street, Philadelphia.

Store and Residence (alts.), 704 South Broad street, Philadelphia, $2,700. Architect, private plans. Owner, Walker G. Gibson, 629 South Broad street, Philadelphia. General alterations. Contract awarded to Harry Gomist, 613 South Clarion street, Philadelphia.

Residence (add.), 170 Levering street, Philadelphia, $2,500. Architect, private plans. Owner, John F. Goodwin, on premises. Brick 2 stories add., 14x12 feet. Contract awarded to Felix Miller & Sons, 4153 Apple street, Philadelphia.

Residences (2), South side Ellett street, East of Greene street, $14,000. Architect, private plans. Owner, Herbert H. Harting, 320 East Rockland street, Philadelphia. Brick, 2 stories, 18x54 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to William E. Rees, 901 South Forty-sixth street, Philadelphia.

Garage, East side Amber street, North of Elkhardt street, Philadelphia, $4,000. Architect, private plans. Owner, William J. Wood, Clearfield and Collins streets, Philadelphia. Brick, 1 story, 54x30 feet, slag roof, cement

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floors. Contract awarded to Warren Smith, 7959 Oxford street, Philadelphia.

Residence (alts.), 5415 Tacoma street, Philadelphia, $3,500. Architect, private plans. Owner, Anna Watts, 261 High street, Philadelphia. General alterations. Contract awarded to Leo Alexander, 5236 Newhall street, Philadelphia.

Store, South side Wyoming avenue, East of Front street, Philadelphia, $3,500. Architect, private plans. Owners, John Wetlands Sons, care of builder. Brick, 1 story, 18x45 feet, slag roof, pine floors, electric light. Contract awarded to Louis Braening, Jr., 5136 North Fifth street, Philadelphia.

Store and Storage (add. and alts.), 1724 South Sixth street, Philadelphia, $3,000. Architect, private plans. Owner, Frank Levy, 1619 South Fifth street. Brick, 1 story add., 16x12 feet, general alterations. Contract awarded to George L. Hamly, 132 North Sixty-first street, Philadelphia.

Pennsylvania Construction News

Mess Hall and Kitchen (alts. and add.), Camp Happy, Torresdale, Pa. Architect, private plans. Owners, City of Philadelphia, Bureau of Recreation, 592 City Hall. Frame, 1 story, 32x16 feet, 80x15 feet (plumbing and electric work reserved), tin roof, pine floors, painting and glazing, bond. Owners taking bids due March 17th.

Apartment House, Wayne, Pa. Architect, John Charles Norton, Ardmore, **Pa. Owner,** name withheld. Brick, limestone, steel concrete, 4 stories, 235x310 feet, slag roof, hardwood and tile floors, steam heat, oil burning, electric light, tile and marble work, rolled steel casements, hollow metal skylights, 4 fire towers, fire escapes, kalamein doors, ornamental iron work, gypsum tile and china partitions, granite, terra cotta, kitchen and laundry equipment, incinerator, refrigeration. Preliminary plans completed. Will start working drawings in one week.

Office and Residence, Berwyn, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Washington I. Smith, Berwyn, Pa. Cinder block plastered, 2½ stories, 30x48 feet, slate roof, hot water heat, electric light, tile work, hardwood floors. Plans in progress.

Residence, Beechwood avenue, Ardmore Park, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Tony White, Ardmore Park, Pa. Brick, cinder block, plaster, 2½ stories, 16x40 feet, shingle roof, hardwood floors, cement work, hot water heat, electric light, tile work. Plans in progress.

Twin Residences (3 pairs), Grandview avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Lowder, Wilson & Norton, Ardmore, Pa. Cinder block and plaster, 3 stories, 20x32 feet each, slate roof, hardwood floors, cement work, hot water heat, electric light, tile work, copper flashings and spoutings. Owners will build and are ready for sub-bids.

Store and Apartment (3), Grandview road, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Lowder, Wilson & Norton, Ardmore, Pa. Brick, steel, 2 stories, 20x45 feet each, hot water heat, electric light, tile work, hollow metal skylights, metal bulks, slag roof, hardwood floors, plate glass. Owners will build and are ready for sub-bids.

Station (alts. and add.), Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owners, Main Line Battery and Electric Station, Ardmore, Pa. Brick, steel, 3 stories, 18x70 feet, slag roof, maple floors, changing in heating and lighting, hollow metal skylights. Plans in progress.

Stores and Apartments (3), Spring and Greenfield avenues, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, F. B. Joseph, on premises. Brick, steel, concrete block, 2 stories, 60x42 feet 6 inches, slag roof, hardwood floors, hot water heat, electric light, quarry tile work, hollow metal skylights, metal bulks, plate glass. Plans in progress.

Residence, Maraton avenue, South Ardmore, Pa. Architect and owner, John Charles Norton, Ardmore, Pa. Frame and stucco, 2½ stories, 26x38 feet, shingle roof, hardwood floors, cement work, hot water heat, electric light, tile work. Plans in progress. Owner will build.

Store and Apartments (2), West Lancaster avenue, Ardmore, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Charles L. Stanton, West Lancaster ave., Ardmore, Pa. Brick, steel, 2 stories, 20x86 feet, slag roof, hardwood and maple floors, cement work, hot water heat, electric light, tile work, hollow metal skylights, metal bulks, plate glass. Plans in progress.

Ice Cream Plant, Northeast Corner Third and Brush streets, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Abbott Alderney Dairies, C. R. Lindback, president, 236 Lombard street, Philadelphia. Brick, 1 story, 60x141 feet. Architects taking bids.

Grade School, East End, Lancaster, Pa. Architect, not yet selected. Owners, Lancaster School Board, W. J. Coulter, secretary, 43 East Grant street, Lancaster, Pa. Fireproof, 12 rooms. Work contemplated.

Grade School, West End, Lancaster, Pa. Architects, not yet selected. Owners, Lancaster School Board, W. J. Coulter, secretary, 39 East Grant street, Lancaster, Pa. Fireproof, 18 rooms. Work contemplated.

School (add.), Petersburg, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, East Hempfield Township School Board, care of architect. Brick, steel, 2 stories, 32x80 feet, slate roof, maple floors, roof ventilators, safety treads, unit heat, electric light, metal lath, ornamental iron work, bond. Plans in progress.

Houstonville School (add.), South Coatesville, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, South Coatesville School Board, care of architect. Brick, steel, 3 stories, 60x80 feet, 50x60 feet, slate roof, maple floors, safety treads, roof ventilators, iron stairs, rolled steel sash, metal lath (heating, plumbing and electric separate). Plans in progress.

Factory (add.), Bally, Pa. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owners, Bally Ribbon Mills Co., care of architects. Brick and steel, 1 story and basement, 50x60 feet, slag roof, maple floors, electric light, steel sash, fire doors. Plans in progress.

Residences (3), Drexel Hill Plaza, Pa. Architect, Paul Hesser, 225 South Sixth street, Philadelphia. Owner, P. Beccia, Lansdowne, Pa. Stone, hololw tile, stucco, 2½ stories. Preliminary plans being prepared. Too early for details.

Twin Residences (1 pair), Rutledge, Pa. Architect, private plans. Owner, Nicholas Swartz, 5026 Kingsessing avenue, Philadelphia. Frame, stucco, 2 stories, 16x40 feet, asbestos or composition roof, pine and hardwood floors, hot water heat, electric light, tile work. Owner taking sub-bids due at once.

Schools, Forrest avenue, Ambler, Pa., $75,000. Architect, Watson K. Phillips, 213 S. Fifth street, Philadelphia. Owners, Board of Education, G. Y. Styer, president; F. C. Weber, secretary, Ambler, Pa. Local stone, slag roof, fireproof stairways and corridors, unit steam heating system, electric light. Will contain 11 class rooms, auditorium, toilets, teachers' room, store room, office, etc. Preliminary plans in progress. Ready for bids in two months.

Teachers' Dormitory, George School, Bucks County, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, George School, George School, Bucks County, Pa. Hollow tile, concrete block, brick veneer, 2 stories, 30x70 feet, slate roof, hardwood floors, central heat, electric light. Plans completed. Architects will be ready for bids in one week.

Twin Residences (10 pairs), Springfield, Pa. Architect, Paul Hesser, 225 South Sixth street, Philadelphia. Owner, Paul Meccia, Lansdowne, Pa. Stone, stucco, brick and frame, cinder block and stucco, 2½ stories, 16x50 feet, variegated shingle roof, oak floors, hot water heat, electric light, tile work. Owner will build and is taking sub-bids.

Residences (38), Garages (17), Twenty-sixth and Crozer streets, Chester, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Herman Bobb & Weinstein, Forty-eighth and Osage avenue, Philadelphia. Cinder block, frame and stucco, 2 stories, 16x41 feet, 1 story, 20x20 feet, creosote shingle roof, hardwood floors, cement work, hot water heat, electric light, tile work. Owners taking sub-bids.

Art Gallery and Studio, near Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, George D. Horst, care of architects. Hollow tile, stucco and steel, 1 story, mezzanine and basement, 40x60 feet, slate or tile roof, maple floors, hollow tile, vapor heat, electric light, metal lath, tile and marble. Architects taking sub-bids.

Factory, South Third street, Reading, Pa. Architect, private plans. Owners, P. Hendel Co., 433 South Third street, Reading, Pa. Brick, mill construction, 2 stories, 60x120 feet. Owners will build.

American Hotel, Northeast Corner Hamilton and Sixth streets, Allentown, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Messrs. Aaron Potruch and Albert Gomery, Alentown, Pa. Brick, reinforced concrete, granite, steel, 10 stories and basement and mezzanine, 229x91 feet, slag, composition, tile roof, cement floors, hollow tile, elevators, roof ventilators, plumbing, waterproofing and dampproofing, architectural terra cotta, meta lath, tile, marble and terrazzo work, hollow metal doors, bond, bronze work, refrigeration, laundry equipment, composition floors. Architects taking bids due March 30th.

Manufacturing Building (add.), Easton, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Gunning Silk Co., Easton, Pa. Brick, reinforced concrete, steel, 1 story, 163x118 feet, gypsum slag roof, cement floors, hollow tile, safety treads, rolled steel sash, saw-tooth skylights, tin-clad doors, floor hardener, ornamental iron work, rolling steel shutters, painting and glazing, steel partitions. Architects taking bids due March 24th.

Theatre Building, Pine and North streets, Williamsport, Pa. Architect, F. A. Rianhard, Masonic Temple Building, Williamsport. Owners, Lycoming Amusement Co., W. P. Wilson, treasurer, 152 West Fourth street, Williamsport, Pa. Owners taking bids due March 22nd at noon. Certified check 2 per cent. required. Bids will be taken on building construction, including plumbing, and separately on heating and ventilating and electrical work.

School, Aldan, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, School Board of Aldan, A. L. Rehner, Aldan, Pa. Brick, steel, 1 story, 143x116 feet (plumbing, heating, electric separate), slag roof, ornamental iron work, maple floors. Owners taking bids due March 22nd, 7 P. M.

Residence, Providence road, Nether Providence Township, Delaware County, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Mr. Charles R. Long, 418 Market street, Chester, Pa. Brick, stone, concrete, cut stone, 2½ stories and basement, 45x29 feet, hot water heat, electric light, ornamental iron work, flagstone, variegated slate roof, oak and pine floors. Architects taking bids due March 22nd.

Grade School, Crest avenue, Bethlehem, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Bethlehem, Bethlehem, Pa. Brick, cut stone, steel, 1 story and basement, 159x67 feet, composition and slate roof, cement and maple floors, plumbing, roof ventilators, dampproofing, ornamental iron work, bond, hollow metal sash and doors, terrazzo work, metal lath, steam heat, electric light. Owners taking bids due April 5th.

School, Langhorne, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Middletown Township School Board, Joseph Mather, president, Langhorne, Pa. Brick, steel, 2 stories and basement, slag roof, maple floors, 37x90 feet, steam heat, electric light. Owners taking bids due March 27th, 4 P. M.

Washington Grade School (add.), Bethlehem, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of the City of Bethlehem, Pa. Brick, cut stone, 2 stories and basement, 59x37 feet, wing 100x38 feet, slate roof, cement and maple floors, plumbing, waterproofing and dampproofing, ornamental iron work, hollow metal doors and sash, metal lath, steam heat, electric light. Owners taking bids due April 5th.

Schools (3), Abington, Roslyn, Overlook Hill, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Abington Township School Board, Glenside, Pa. Low bidders: Abington High School (alts.)—David Lutz & Co., Twenty-third and Chestnut streets, Philadelphia, $58,250; Wills-Bill Co., 1706 Sansom street, Philadelphia, $62,662; heating, J. H. Hutchinson, 1020 Callowhill street, $6,100; plumbing, William Ambrose, Leverington and Umbria avenue, $4,298; electric, R. J. Wright, 2315 Walnut street, $1,992. Low bidders: Overlook Hill School—David Lutz & Co., Twenty-third and Chestnut streets, Philadelphia, $76,400; Roy Randall, Jenkintown, Pa., $76,469; heating, J. H. Hutchinson, 1020 Callowhill street, Philadelphia, $13,997; plumbing, William Newell & Son, 1707 Sansom street, Philadelphia, $12,629, deduct $100; Wiliam Ambrose, Leverington and Umbria, Philadelphia, $12,-641, deduct $700; electric, Mitchell & Co., 1337 McFerran street, $2,300. Low bidders: Roslyn School—David Lutz & Co., Twenty-third and Chestnut streets, Philadelphia, $75,-800; Roy Randall, Jenkintown, Pa., $75,987; heating, J. H. Hutchinson, 1020 Callowhill street, $14,459; plumbing, William Newell & Son, 1707 Sansom street, Philadelphia, $12,-253, alt., deduct $100; William Ambrose, Leverington avenue and Umbria street, Philadelphia, $12,550, alt., deduct $700; electric, Mitchell & Co., 1337 McFerran street, $2,300.

Sandy Bank School (add.), Upper Providence Township, Pa. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Upper Providence Township School Board, Media, Pa. Stone, 4 rooms and fire tower (plumbing, heating and electric work separate). Low bidders: D. A. McClelland Co., Drexel Building, Philadelphia, $33,377; Flounder Brothers, Media, Pa., $36,800; heating, Horace W. White, 1407 Providence avenue, Chester, Pa., $4,838; plumbing, Horace W. White, Chester, Pa., $2,580, allowance on tank of $125; electric, E. E. Higgins & Co., Wilmington, Del., $902.

School, West Pittston, Pa. Architects, Mack, Sahm & Foster, Coal Exchange Buildinb, Wilkes-Barre, Pa. Owners, West Pittston School District, Paul Bowen, West Pittston, Pa. Low bidders: Herman Mailander, Wilkes-Barre, Pa., $231,000; Shepherd Const. Co., Wilkes-Barre, Pa., $235,586; heating and ventilating, Walsh Brothers, Pittston, Pa., $38,15; plumbing, J. J. Cawley, Wilkes-Barre, Pa., $10,500; electrical, Murphy Electric Co., Wilkes-Barre, Pa., $6,500.

Pennsylvania Contracts Awarded

Store and Apartment (2), Berwyn, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, Carl Litchenfeld, Ardmore, Pa. Brick, steel, reinforced concrete, 2 stories, 44x76 feet, hot water and hot air heat, electric light, tile work, slag roof, maple floors, plate glass, cement work, metal cornices, ornamental iron work. Contract awarded Daniel I. La Fevre, Berwyn, Pa.

Double Residence, Ardmore Park, Pa. Architect, John Charles Norton, Ardmore. Pa. Owner, J. Turner, Ardmore Park, Pa. Brick, cinder block, plaster, 2½ stories, 16x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, cement work. Contract awarred Tony White & Son, Ardmore Park, Pa.

Church, Bridgeport, Pa. Architect, Louis H. Giele, 1123 Broadway, New York City. Owners, Sacred Heart Roman Catholic Church, Bridgeport, Pa. Stone, brick, cut stone, steel, 1 story and basement, 110x67 feet, Chapman slate roof, pine floors, painting and glazing, metal ceiling, electric lighe, metal lath, bond, ornamental iron work, bluestone. Contract awarded Woodland Const. Co., Sixty-fifth and Chester avenue, Philadelphia.

Residence, Dekalb and Logan streets, Norristown, Pa. Architect, H. G. McMurtrie, 1012 Walnut street, Philadelphia. Owner, H. A. Gawthrop, Norristown, Pa. Stone, 3 stories, 35x60 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble work. Contract awarded F. R. Heavner, Norristown, Pa.

Stable and Alterations to Garage, Swarthmore, Pa. Architect, James Patterson, 1947 North Judson street, Philadelphia. Owner, C. A. Stern, on premises. Brick, 1 story, 30x50 feet, cement floors, carpentry and mill work, electric light. Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

Residence, Yale and Dickinson avenues, Brookline, Pa. Architect, John Charles Norton, Ardmore, Pa. Owner, G. M. Lowder, Ardmore, Pa. Frame, stucco, 2½ stories, 26x38 feet, hot water heat, electric light, tile work, shingle roof, hardwood floors, cement work. Contract awarded James Taitt, Brookline, Pa.

Residence (add. and alts.) to Apartment, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, The Vanity Box, 26 South Duke street, Lancaster, Pa. Brick, third story add., 60x20 feet, tin roof, hardwood floors, vapor heat (electric and plumbing reserved), general alterations. Contract awarded to B. Frank Bachman, Woolworth Building, Lancaster.

School (add.), South West End avenue, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Lancaster Township School Board, H. L. Breiter, Lancaster, Pa. Brick, steel, 2 stories and basement, 26x80 feet, slag roof, pine floors, hollow tile, metal lath (heating, plumbing and electric separate). Contract awarded to D. S. Warfel, 452 North Prince street, Lancaster, Pa. Heating, National Heating & Ventilating Co., Drexel Building, Philadelphia. Electric, P. Eshelman, 307 North Queen street, Lancaster, Pa. Plumbing, Sellers Co., Lancaster, Pa.

Academy Building, Moylan, Delaware County, Pa., $400,000. Architect, Emil G. Perot, 1211 Arch street, Philadelphia. Owners, Sisters of Notre Dame, Moylan, Pa. Stone, cut stone, brick, granite, limestone, 3 stories and basement, 77x188 feet, 92x44 feet, slag, gypsum, steel reinforced roof, cement and composition and maple floors, hollow tile, plumbing, roof ventilators, slate blackboards, metal weather strip, shoring, waterproofing (membrane), dampproofing, shoring, architectural terra cotta, ornamental iron work, iron stairs, bond, kalamein doors, hollow metal sash, tile, marble and terrazzo work, steam heat, electric light, hollow metal partitions, dumb waiters, steel casements, ornamental plaster. Contract awarded Murphy-Quigley Co., 1524 Sansom street, Philadelphia.

Printing Plant, Easton, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Mack Printing Co., Easton, Pa. Brick, cut stone, cast stone, reinforced concrete, steel, 1 story, 402x128 feet, slag roof, cement floors, safety treads, roof ventilators, waterproofing, rolling steel shutters, metal partitions, ornamental iron work, iron stairs, floor hardener, bond, tin-clad fire doors, tile and marble, metal lath. Contract awarded Central Const. Co., Harrisburg, Pa.

Residence, King of Prussia, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Charles E. Thomas, care of architect. Stone, concrete block, 2½ stories and basement, 72x32 feet, variegated slate roof, oak, pine and cement floors, plumbing, hot water heat, electric light, metal lath, tile and marble work, ornamental iron work, flagstone, oil burning equipment. Contract awarded William H. Eddleman, 453 Green Lane, Philadelphia.

Municipal Building, South side Lincoln Highway, Downington, Pa. Architect, A. H. Mowere, Phoenixville, Pa. Owners, Citizen Holding Co., Allen D. Kern, Downington, Pa. Reinforced concrete, stone, cut stone, brick, steel, 3 stories and basement, 50x73 feet (plumbing, heating, electric separate), asbestos shingle roof, electric light, plumbing, painting and glazing, metal ceilings, waterproofing, ornamental iron work. Contract awarded Harry A. Deitz, Downington, Pa.

Residence and Garage, Morris avenue and Old Golf road, Bryn Mawr, Pa. Architect, R. L. Colton, 225 South Sydenham street, Philadelphia. Owner, Charles H. Horter, 211 North Thirty-sixth street, Philadelphia. Stone, 2½ stories and basement, 44x30 feet, wing 12x30 feet, shingle roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iro nwork. Contract awarded J. E. Kearney, Wynnewood, Pa.

Consolidated School, Oberlin, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Swatara Township School Board, Wm. Horner, President, Oberlin, Pa. Brick, steel, concrete, 2 stories, composition and slag roof, cement floors, roof ventilators, cut stone (heating, plumbing and electric work separate), metal lath, steel sash. Contract awarded to J. C. Snyder, Selinsghove, Pa., $77,747.47. Plumbing to Herre Bros., Seventh and Emerald streets, Harrisburg, Pa., $3,900. Electric to J. L. Crum, Penbrook, Pa., $3,-105.05. Revised bids will be taken on heating.

Residence, Sherley Road, Narberth, Pa. Architect, Paul Hesser, 225 South Sixth street, Philadelphia. Owner, Frank Nelms, 552 S. Forty-eighth street, Philadelphia. Stone, brick, hollow tile, half timber, stucco, 2½ stories, 28x45 feet, shingle roof, hardwood floors, hot water heat, electric light, tile and

marble work. Contract awarded to P. Beccia, Lansdowne, Pa.

Garage (alts. and add.), Wynewood, Pa. Architect, E. O. Shakespeare, The Wellington, Nineteenth and Walnut streets, Philadelphia. Owner, Tristram C. Colket, 2nd, 253 Halkaway Lane, Wynnewood, Pa. Brick, concrete, stucco, one story, 17x18 feet, shingle roof, cement floors, plumbing, hot water heat, electric light, ornamental iron. Contract awarded to Herbert Campion, Otis Building, Philadelphia.

Residences (12), Harrisburg, Pa. Architect, private plans. Owner's name withheld. Frame, brick and stucco, 2½ stories, 26x30 feet, shingle roof, pine floors. Contract awarde dto G. Motter, 1123 Green street, Harrisburg, Pa.

New Jersey Construction News

Physics Building, Agricultural College, New Brunswick, N. J. Architect, Alan B. Mills, Division of Architecture and Construction, Trenton, N. J. Owners, State of New Jersey, Department of Institutions and Agencies, Trenton, N. J. Brick, concrete, steel, 3 stories and basement, 140x51 feet, tile and green slate roof, mastic and cement floors, hollow tile, shoring, membrane waterproofing, dampproofing, ornamental iron, floor hardener, bond, kalamein doors, hollow metal doors, hollow metal sash, marble work, metal lath (plumbing, heating and electric work separate), area gratings, rubber tile floors, ornamental plaster. Certified check 5 per cent. of bid. Owners taking bids due March 24th at 1.30 P. M.

Warehouse Building, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Crane Co., 836 South Michigan avenue, Chicago, Ill. Preliminary sketches in progress.

Y. M. H. A. and Y. W. H. A. Buildings, Jersey City, N. J. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owners, Y. M. H. A. and Y. W. H. A., Jersey City, N. J. Preliminary plans in progress.

School Building, Pacific and South Carolina avenue, Atlantic City, A. J. Architect, Wm. M. Price, 119 South Fourth street, Philadelphia. Owners, Friends' School, care of Mr. N. Jones, on premises. Brick, steel, 2 stories, 58x95 feet. Plans being prepared.

Residences (2), Absecon, N. J. Architect, Wm. F. B. Koelleo, Otis Building, Philadelphia. Owners, Atlantic City Estates, Lee G. James, Atlantic City, N. J. Holow tiel, stucco. 2½ stories, 26x42 feet. Plans in progress.

Store Front (add. and. alts.), Hamilton street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Irvin Habas, 1230 Hamilton street, Trenton, N. J. Brick, plate glass, general alterations. Plans in progress.

Bank, State and Warren streets, Trenton, N. J. Architects, Dennison & Hirons, 288 Lexington avenue, New York. Owners, Trenton Trust Co., A. Smith, President, 28 West State street, Trenton, N. J. Brick, limestone. Plans in progress.

Fire House, Seventh and Black Horse Pike, Glendora, N. J. Owners, Glendora Fire Co., Oscar Parson, President, Glendora, N. J. Concrete, steel, 2 stories, 40x80 feet, concrete and wood floors. Plans drawn.

Residence, Trenton, N. J. Architect, W. A. Klemannn, First National Bank Building, Trenton, N. J. Owner, Edward Connolly, care of architect. Brick, 2½ stories, 50x70 feet, slate roof, hardwood floors, Warren Webster heat, electric light, tile work. Architect ready for bids.

Bank, Salem, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, Salem National Bank and Trust Co., Salem, N. J. Brick, limestone, cut stone, steel, 4 and 1 story and basement, 50x100 feet, slag roof, cement floors, metal lath, marble work, roled steel sash and skylights, ornamental iron work, bronze work, models and carving, cabinet work, metal counters, cages, grills, wickets, sidewalk lifts, dumb waiters, hardware. Architect taking bids, due March 23rd.

Residence, Haddonfield, Camden County, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Philadelphia. Owner, Oscar N. Hinski, Federal and Haddon avenue, Camden, N. J. Cinder block, brick, stucco, concrete foundations, 2½ stories and basement, 25x72 feet, vapor heart, electric light, tile work, rolled steel sash, slate roof, hardwood floors. Architects taking bids, due March 22nd.

Residences (7), 3305-17 Highland avenue, Camden, N. J., $28,000. Architect, private plans. Owner, Peter Kovalenko, Blackwood, N. J. Brick, two stories, 16x44 feet 6 inches, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (4), 1457-63 South Ninth street, Camden, N. J., $16,000. Architect, private plans. Owner, Conrad Lambert, 1427 South Ninth street, Camden, N. J. Brick, 2 stories, 14x40 feet, slag roof, pine floors, warm air heat, electric light. Permit granted.

Bridge, New Jersey. Owners, State Highway Commission, A. Lee Grover, Secretary, Broad Street Bank Building, Trenton, N. J. Double leaf deck girder simple trunnion bascule bridge over Cooper River on entrance road to Delaware River Bridge, City of Camden, N. J. Total length between centers of main trunnions of 124 feet, providing roadway of 78 feet between curbs and two 21-foot sidewalks. Excavation, borrow, timber piling, concrete, reinforced steel, structural steel, machinery. Owners taking bids, due March 29 at noon. Certified check 10%. Deposit $10.00.

New Jersey Contracts Awarded

Dining Hall, Vineland, N. J. (Home of Feeble Minded). Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Hollow tile, brick, steel, one story, 50x146 feet, slate roof, terrazzo floors, roof ventilators, water and dampproofing, skylights, metal lath (heating, plumbing and eelctric work separate). Contract awarded to Thompson & Lockhart, Fifty-seventh and Walnut streets, Philadelphia. Heating and plumbing awarded to W. L. Boggs Co., Vineland, N. J.

Buildings, New Jersey Training School for Feeble Minded, Totowa, N. J. Architect, Alan B. Mills, Division of Architecture, Trenton, N. J. Owners, Department of Institutions and Agencies, 643 Broad street, Newark, N. J. Brick, steel, reinforced concrete, stucco, metal lath, tile and marble, rolled steel and copper sash, skylights, bond, hollow metal doors, ornamental iron, clay tile roof, cement, maple and mastic floors, metal weatherstrip, shoring, integral waterproofing, dampproofing, cast stone, steel partitions and lockers. Contract awarded to C. J. Smith Construction Co., Trenton, N. J. Electric to Hoffman & Blais, 59 West Fifty-first street, New York. Plumbing and heating to G. J. Tobin, Plainfield, N. J.

Store and Apartments, 196 East Broadway, Salem, N. J., $14,000. Architect Engineer, M. M. Boonin, 17 South Seventeenth street, Philadelphia. Owner, J. Marks, Salem, N. J. Brick, two stories, 35x44 feet, irregular, steam heat, electric light, slag roof, pine and cement floors, hollow metal skylights, flush bulks. Contract awarded to Max Siegal, 1723 North Franklin street, Philadelphia.

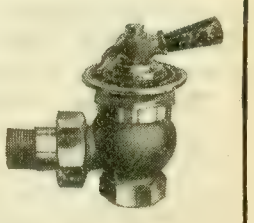
Residence (alt. and add.), Plaza Place and Ventnor avenue, Ventnor, N. J. Architect, private plans. Owner, Louis Rosenthal, on premises. Brick, two stories, steam heat, electric light, slate roof, parquetry and pine floors, cement floors. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

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5th and Market Streets, Camden, N. J.

BELL PHONE, CAMDEN 3210 KEYSTONE, CAMDEN 3147

Residence, Brigantine Beach, N. J. Architect, Charles H. Roberts, Otis Building, Philadelphia. Owner, Mr. Whitney Smith, care of architect. Frame, 2½ stories and basement, 54x23 feet, shingle roof, oak and pine floors, hot water heat, eelctric light, tile work, ornamental iron work. Contract awarded to Chas. B. Thompson, Pleasantville, N. J. Building indefinitely postponed.

Miscellaneous Construction News

Store (add.), Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owners, Miller Brothers, Ninth and King streets, Wilmington, Del. Frame and steel, fourth story add., 40x70 feet, slate and composition roof, pine floors, plaster board walls and ceiling (plumbing, heating and electric work reserved), elevator. Owners taking bids.

Bank (alts.), Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, name withheld. General interior alterations, bank screens and fixtures, rubber, marble flaors, marble work, electric light. Plans in progress.

Bank (alts. and add.), Market street, Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Security Trust and Deposit Co., J. Roselle, President, Sixth and Market streets, Wilmington, Del. Fireproof, brick, stone, 2 or3 stories. Preliminary plans in progress.

Residence, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owner's name withheld. Hollow tile and stucco, 1½ stories, 30x40 feet, slate roof hardwood floors, vapor heat, electric light, tile work. Architect about ready for bids.

Residences (17), Eleventh street, east of Clayton, Wilmington, $4,000 each. Architect, private plans. Owner, Louis Feldman, 1011 Chestnut street, Philadelphia. Brick, two stories, 20x30 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (5), Wilmington, Del., $3,000 each. Architect, Private plans. Owner, Patrick Fahey, 122 North Clayton street, Wilmington, Del. Brick, cinder block, two stories, 14x44 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residence, Westminster, Md. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, Professor Unge, Westminster, Md. Stucco, hollow tile, 2½ stories, 48x30 feet, shingle roof, hardwood floors, electric light, tile work. Plans in progress.

Sunday School, Cumberland, Md. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Luke's Lutheran Church, Rev. H. Hall Shanz, Cumberland, Md. Stone, steel, one story and gallery, 65x120 feet, tile roof, maple floors, hollow tile, roof ventilators, water and dampproofing, ornamental iron work, metal lath, steam heat, electric light. Owners taking bids, due March 26th at 6 P. M.

Boiler House, Durham, N. C. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Duke University, Durham, N. C. Brick, 40x70 feet. Architect taking bids, due April 1st.

Miscellaneous Contracts Awarded

Building (alts. and add.), 1009 Washington street, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, Max Keil, on premises. General alterations and additions. Contract awarded to C. J. Dougherty, 2515 West Eighteenth street, Wilmington.

Church, Thirteenth and Broome streets, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, St. Stephen's Lutheran Church, Rev. F. Doerr, Wilmington, Del. Stone, steel, one story and basement, 45x100 feet, slate roof, hardwood floors (heat reserved), electric light, metal lath, tile and marble, leaded glass. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Residences (7), Wilmington, Del., $4,500. Architect, private plans. Owner, A. Petrello, care of builder. Stone, brick, two stories, 20x28 feet, asphalt roof, pine floors, hot water heat, electric light. Contract awarded to A. Fortenato, 1337 West Fourth street, Wilmington, Del.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 10, 1926. Sealed Proposals will be opened in this office at 3 P. M., April 1, 1925, for remodeling and for covering driveway, including incidental changes in the mechanical equipment of the United States Post Office, McKeesport, Pa. Drawings and specifications may be obtained from the Custodian at the building or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 8, 1926. Sealed Proposals will be opened in this office at 3 P. M., March 31, 1926, for remodeling and enlarging, including incidental changes in the mechanical equipment, of the United States Post Office at Lynn, Mass. Drawings and specifications may be obtained from the Custodian at the building or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 164)

certainly most convenient, but they cost more to operate and the first cost of the equipment is greater than for the type which may be turned on from time to time as required. Costs vary with the convenience afforded. Your plumber will demonstrate this for you.

43. There are several types of heating plants. All are satisfactory if they are well designed and properly installed. Each one has special qualities which distinguish it from the others, and there are differences in cost as well. Personal preferences are usually quite fixed in regard to the kind of heating system that must be used, but you may not be able to buy the particular kind of heating system you prefer. In order to have your house, you must be prepared to take here as elsewhere throughout the building, what you can afford. We urge you not to buy a cheap heating device whatever system you select.

44. A heat regulator should go into every home as a definite means of maintaining even temperature and of decreasing costs of fuel, but one of these regulators costs from $50 to $150, and so may be outside of your immediately available funds. You may have your house wired for this and install it later on.

45. Since low radiators can be placed under windows they are in the best position to overcome heat losses that take place through the windows. In this position they also leave wall space for furniture. These are advantages the high type radiators do not have, but the high type costs less. You are the one who must decide and who must pay the bills.

Cut Quantity and Add Quality

46. The equipment of the radiators is another item of variable expense. For example, the valves may be of the ordinary kind, or they may be "leakproof," which cost more, or you may have the "indicator"type. Compare costs on this equipment. Take what you can afford.

47. Heating pipes should be insulated. The better they are insulated the more satisfactory the heating plant will work—the lower its cost of operation—but the quality and expense of this insulation has a direct influence on the initial cost of your home. Get a good job here even if you have to wait for it.

48. Hardware represents an opportunity for you to exercise economy. There is a wide difference between the appearance of an ordinary pressed steel doorknob and one made of cast bronze in the form of a lever handle. You must decide whether you will spend $100 for hardware, or $200.

49. Electric fixtures, like hardware, do not ordinarily represent a very large percentage of the total building cost. Yet there is a difference in quality and in design and finish, with which go differences in cost. Cast brass fixtures must necessarily cost more than those spun from thin sheets of this metal. There will be a saving here if you are careful. Tastefully designed fixtures may be obtained without excessive cost.

50. The cost of wiring your home will be affected directly by the number of outlets for lighting fixtures and switches that are supplied. The convenience afforded by numerous outlets should be recognized and yet it is wholly possible to install more than is really necessary. The cost is fixed by the rate per outlet. It will be seen that the omission of even two or three at $4.00 per outlet would mean something.

The above are some practical ways to assist you in reducing the cost of your home. If you will go over each one, *preferably with a competent local architect to help you,* to see how you can make it apply in your building, and then if you will learn from your contractor the amount of money saved by each one, you will see just what the total sum saved amounts to. Your savings may easily amount to as much as $1,000. Be sure to cut out the non-essentials first, things that can be replaced later on. But never reduce qualities or workmanship to a point where durability is threatened.

Reference Directory for Architects, Builders and Owners

ACCOUNTANT.
t. Landergin.....5523 Hadfield St., Phila.
ARCHITECTURAL IRON WORK
iaker City Art Metal Works,
2445 N. Second St., Phila.
ARTESIAN WELLS.
idpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.
ARTISTS' AND ARCHITECTS' SUPPLIES.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.
BLUE PRINTS.
ue Print Shop.....1520 Sansom St., Phila.
obbins, Chas. H., Co.....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
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ue Print Shop.....1520 Sansom St., Phila.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.
BOILER AND PIPE COVERINGS.
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.
BRICK.
ox, Janeway, & Co..Real Estate Trust Bldg., Phila.
BRICK (Face, Common, Paving).
etcham, O. W. .....121 N. 18th St., Phila.
BUILDERS.
itchell Bros. .....2125 Race St., Phila.
seph Rotornado.....4740 Milnor St., Phila.
BUILDING BLOCKS.
ictor Concrete Products Co.,
Primos Station, Del. Co., Pa.
BUILDERS' SUPPLIES.
rvice Supply Corporation,
20th and Venango Sts., Phila.
ie Van Sciver Corporation,
The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CABINET WORK.
iskey Mfg. Co. ..Columbia and Howard St., Phila.
CAST STONE
neland Architectural Cast Stone Works,
Vineland, N. J.
CEMENT.
ie Van Sciver Corporation.
The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
CEMENT WORK.
Lauro, John .....55 E. Mermaid Lane, Phila.
arsch, Wm. F. .....Narberth, Pa.
assiah, Frederick.Juniper and Cypress Sts., Phila.
COLD STORAGE (Insulation and Covering)
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.
COLUMNS (Metal).
earce Fireproof Co. .....1911 N. 2nd St., Phila.
CONCRETE SEWER PIPE.
roudsburg Septic Tank Co..328 Chestnut St., Phila
CONCRETE WORK.
arsch, Wm. F. .....Narberth, Pa.
assiah, Frederick.. Juniper and Cypress Sts., Phila.
CONTRACTORS' EQUIPMENT
evitt, Paul J. .....1101 S. 2nd St., Phila.
e T. Ward Co. .....617 Filbert St., Phila.
rvice Supply Corporation,
20th and Venango Sts., Phila.
CORK FLOORING
ivezey, John R. Glenwood Ave. w. of 22nd St., Phila.
CURTIS WOODWORK.
llingham Co. ...Norris and Richmond Sts., Phila.
DAILY BUILDING NEWS.
uilding News Pub. Co. ...1530 Chestnut St., Phila.
DAMPPROOFING.
nti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
arnett Bingswanger.....829 N. 3rd St., Phila.
oncrete Waterproof Paint Co..829 N. 3rd St., Phila.
aster Builders Co., ...Otis Bldg., Phila.
ruscon Laboratories.....1505 Race St., Phila.
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urphy Door Bed Co.....512 Bulletin Bldg., Phila.
DRAWING MATERIALS.
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eber, F. Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.
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cCarrick Bros.....3240 N. Fox St., Phila.
anitary Engineering Co.....40 S. 52nd St., Phila.
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ettit, Frank, Ornamental Iron Works,
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otts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
eisbord, Wolf .....4437-43 Ludlow St,. Phila.
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ortgage Extension Corp.,.1011 Chestnut St., Phila.
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Malia, Thomas .....226 W. Mentor St., Phila.
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Radiator Cabinet Co. .....Drexel Bldg., Phila.

RANGES.
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Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ....1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
F. R. Rosen.....5327 Market St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.
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F. R. Rosen.....5327 Market St., Phila.
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Harsch, Wm. F.....Narberth, Pa.
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Lee T. Ward Co. .....617 Filbert St., Phila.
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Brinkman Bros. .....2615 Frankford Ave., Phila.
Benjamin Foster Company,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.
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Service Supply Corporation,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.
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Chapman Slate Co .....Bethlehem, Pa.
ROOFING TILE.
Ketcham, O. W. .....121 N. 18th St., Phila.
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Hamilton Rubber Mfg. Co. ..2317 Walnut St., Phila.
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The Van Sciver Corporation,
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West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.
SCAFFOLDING.
Patent Scaffolding Co. .....2835 Bridge St., Phila.
SCREENS.
Malia, Thomas.....226 W. Mentor St., Phila.
SEPTIC TANKS.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.
SEWAGE EJECTORS.
Sanitary Engineering Co.....40 S. 52nd St., Phila.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.
SEWERAGE WORK.
Harsch, Wm. F. .....Narberth, Pa.
Sanitary Engineering Co.....40 S. 52nd St., Phila.
SEWER PIPE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
SHEETROCK (Wall Board).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.
SOUNDINGS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.
STEAM SHOVEL CONTRACTORS.
McCarrick Bros. .....3138 N. 24th St., Phila.
STEAM SPECIALTIES.
Edwin Elliot & Co. .....1011 Chestnut St., Phila.
STONE.
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 12
March 24, 1926

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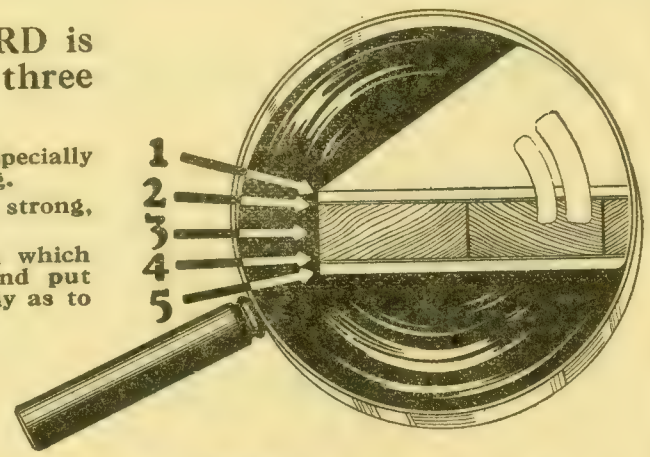
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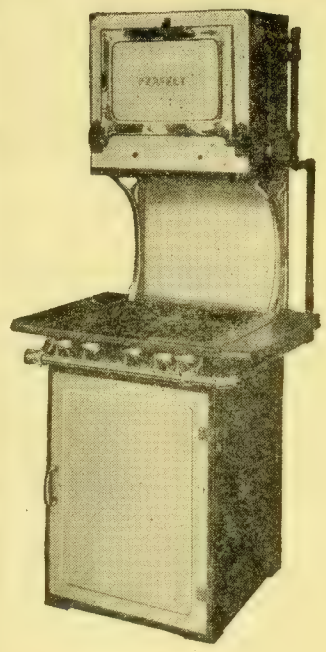
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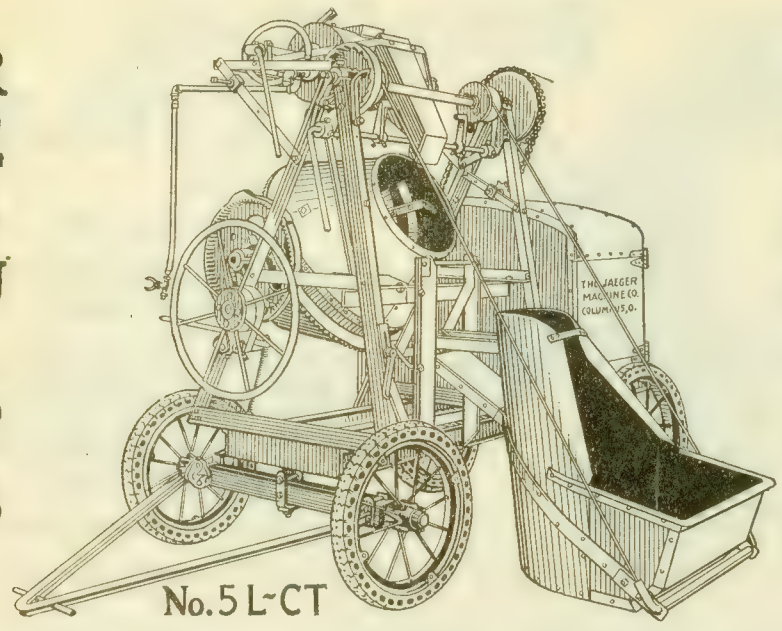
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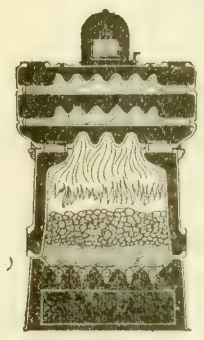
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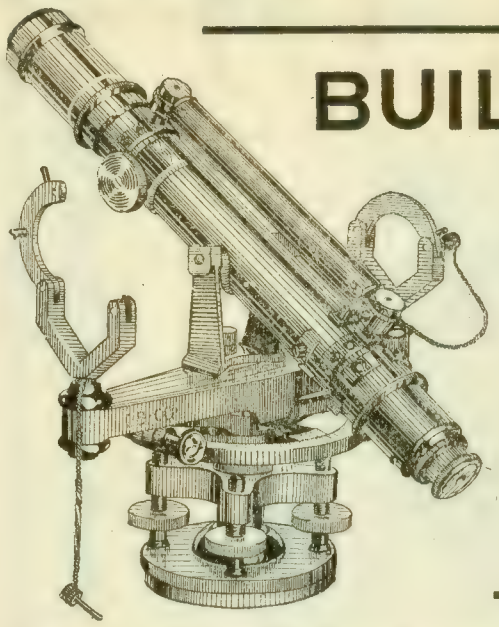
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 12

PHILADELPHIA
March 24, 1926

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Sprinkler System in Building, Pennsdale and Mitchell streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Kauffman Plush Co., on premises. Architects taking bids due March 30th, 11 A. M.

Stores and Offices (alts.), Southeast Corner Eighteenth and Chestnut streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations. Plans in progress.

Factory, 326 North Tenth street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, steel, 2 stories, 16x44 feet, slag roof, hardwood floors, general alterations to present building, rolled steel sash. Plans in progress.

Factory, Worth and Kinsey streets, Philadelphia. Architects, Stearns & Woodnutt, Stephen Girard Building, Philadelphia. Owners, Glove Dye Works, D. R. Greenwood, president, on premises. Reinforced concrete, steel, brick, 4 stories and basement, steam heat, electric light, slag roof, concrete floors. Plans in progress.

Church (interior alts.), Broad street near Tioga street, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Tioga Baptist Church, Rev. H. S. Stewart, on premises. General alterations. Plans in progress.

Building (alts. to Office Building), Northwest Corner Seventeenth and Sansom streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, J. D. Winchell, on premises. General alterations. Plans about completed. Architect will be ready for bids in a few days.

Greasing and Washing Garage and Service Station, West Philadelphia. Architects, H. Rex Stackhouse and W. W. Donohue, 1120 Locust street, Philadelphia. Owner, name withheld. Garage, brick, 1½ stories, 25x100 feet, 8-car capacity, service station, brick, steel, 20x100 feet, 1 story, slag and tile roof, cement floors, Peele doors, steam heat, electric light, mechanical greasing and washing equipment. Plans in progress. Architect will be ready for bids in two weeks.

Residence, No. 2, North side Coulter near Fox street, Philadelphia. Arhcitect, George S. Idell, Corn Exchange Building, Philadelphia. Owner, G. H. English, 3015 Queen Lane, Philadelphia. Brick, 2 stories, 24x87 feet, slate roof, hardwood floors, tile work in 3 baths, gas fired boiler, electric light, steel basement sash. Owner will build. Work to start at once.

Store Building, 3055-57 Kensington avenue, Philadelphia. Architect, private plans. Owners, Fuld Furniture Co., on premises. Brick, 3 stories, 32x66 feet (plumbing, heating, electric separate), slag roof, pine floors, elevators, metal lath, rolled steel sash. Charles S. Bannett, 1633 South Fifty-ninth street, Philadelphia, taking sub-bids.

Store and Factory, 1334 West Tioga street, Philadelphia. Architect, E. B. Medoff, Fox Building, Philadelphia. Owner, Maurice Simon, on premises. Brick, stone, steel, 1 story rear add., 35x90 feet, slag roof, pine and cemnet floors, hot water heat, electric light, limestone and marble work, rolled steel sash and skylights, metal ceilings, metal cornice, architectural terra cotta. Architect taking bids due April 2nd.

Funfield Recreation Center (improvement), Twenty-second and Sedgley streets, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Bureau of Recreation, Department Public Welfare, 595 City Hall. Reinforced concrete, cut stone, brick, steel, granite, 1 story and basement, 80x45 feet, slag and tin roof, cement, maple and pine floors, lockers, metal lath, marble work, hollow metal doors, ornamental iron work, iron stairs, roof ventilators, dampproofing, area gratings. Owners taking bids due March 31st at noon.

Store Building, 636 South street, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owners, Ideal Furniture Co., on premises. Brick, 3 stories, 18x58 feet, slag roof, wood floors, metal lath, elevator, metal ceilings, metal bulks, bond, fire doors, rolled steel sash and skylights, marble work, electric light, hot water heat. Architect taking bids due March 26th.

Palace of Liberal Arts, Broad street, near Navy Yard, Philadelphia. City architect, John Molitor, Bankers' Trust Building, Philadel-

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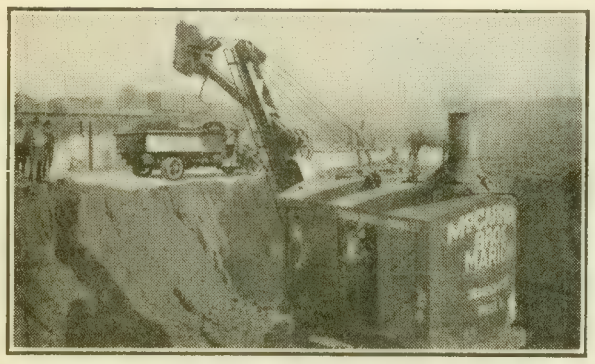
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Storage Warehouse, 5744-48 Vine street, Philadelphia. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, Security Storage Co., on premises. Brick, reinforced concrete, steel, 3 stories and basement, 230x150 feet, slag roof, cement floors, painting and glazing, plumbing, steam heat, electric light, rolled steel sash, fire doors, ornamental iron work, salt glazer terra cotta. Owners taking bids.

Bank and Office Building, Northeast Corner Sixteenth and Walnut streets, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad sereet, Philadelphia. Associate architects, Delano & Aldrich, 123 South Thirty-eighth street, New York City. Owner, Samuel Clements, Packard Building, Philadelphia. Lessees, Brown Brothers Co., 330 Chestnut street, Philadelphia. Brick, granite, limestone, structural steel, concrete arches, brick, 6 stories, 118x50 feet, slag roof, cement floors, metal partitions, mill work, plastering, mail chutes, weather strip, caulking, painting and glazing, hardware, plumbing, steel stairs, ornamental iron work, bond, kalamein doors, rolled steel sash and skylights, slate, marble and terrazzo work, electric light, oil burning, vacuum heat. Architect taking bids due March 27th.

Sisterhood (alts. and add.), Fifty-eighth and Walnut streets, Philadelphia. Architect, Louis Levy, Real Estate Trust Building, Philadelphia. Owners, Congregation Beth-El, Rabbi S. Fredman, Fifty-eighth and Walnut streets. Stone, limestone, brick, steel, 3 stories and basement, 50x92 feet (plumbing, heating and electric, dumb waiter reserved), slate roof, oak and cement composition floors, safety treads, roof ventilators, metal weather strip, waterproofing, ornamental iron work, rolled steel sash and skylights, tile and marble work, metal lath, caulking, hardware. Architect taking bids due March 29th, 10 A. M.

Mill Building, Pennsdale and Mitchell, Pechin street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Kauffman Plush Co., on premises. Reinforced concrete, brick, steel, 5 stories and basement, 106x80 feet (heating, electric and sprinkler reserved), slag roof, cement, maple floors, hollow tile, plumbing, roof ventilators, waterproofing, ornamental terra cotta, rolled steel sash, tin-clad doors, bond, floor hardener, ornamental iron work. Architects taking bids due March 30th, 11 A. M.

Apartment House, 4205 Chester avenue, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Joseph Scutti, 412 Jefferson Building, Philadelphia. Brick, cut stone, 4 stories and basement, 167x46 feet, slag roof, cement, oak and pine floors, hot water heat, electric light, metal lath, tile and marble work, elevators, ornamental iron work, oil burner system, painting and glazing, composition floors, incinerator, plumbing. Architect taking bids due March 29th.

Miscellaneous Supplies, Bureau of Hospitals, Philadelphia. Owners, Department of Public Health, 584 City Hall, Philadelphia. Owners taking bids due March 29th for painting, furnishing and erecting screens, changing control of elevator, painting steel coal bunker.

Delaware Sesqui Buildings, Broad and Pattison avenue, Philadelphia. Architect, Clarence R. Hope, DuPont Building, Wilmington, Del. Owners, Delaware Sesqui Committee, Senator H. G. Highfield, Wilmington, Del. Metal lath, stucco, shingle roof and cement floors, electric light, painting and glazing. Low bidder: S. Sidney Lewis, Real Estate Trust Building, Philadelphia.

Residences (55), Sedgwick, Mower and Moyer streets, Philadelphia, $5,000 each. Architect, private plans. Owner, Jacob Sarshick, Southeast Corner Broad and Louden streets, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (2), North side Shelmire street, East of Veree road, $9,000 total. Architect, private plans. Owner, William Schenck, 1110 East Cottman street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (66), Colgate and Van Kirk streets, Philadelphia, $280,400. Architect, private plans. Owner, Francis B. J. Branagan, Pilgrim Title & Trust Co., 2411 North Broad street, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (30), Smedley street and Sixty-fifth avenue, Philadelphia, $122,000. Architect, private plans. Owners, Madway & Madway, 4218 Lancaster avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (4), South side Clapier street, East of Schuylkill avenue, $29,000. Architect, private plans. Owners, John J. Bateman &

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Residences (16), South side Van Kirk street, West of Colgate street, Philadelphia, $73,000 total. Architect, private plans. Owner, Edgar M. Davenport, 5905 York road, Philadelphia. Brick, 2 stories, 15x28 feet, 9x12 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Building (alts.), 1935 Spruce street, Philadelphia, $10,000. Architect, private plans. Owners, H. John Homan Co., Eighteenth and Cherry streets, Philadelphia. General alterations. Permit granted.

Residence, Northwest Corner Veree road and Ferndale street, Philadelphia, $7,000. Architect, private plans. Owner, Edwin Davis, 7802 Veree road, Philadelphia. **Frame, 2 stories,** 26x48 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Office and Factory (add.), 8301 Torresdale avenue, Philadelphia, $20,000. Architect, private plans. Owners, Precision Grinding Wheel Co., on premises. Brick, 1 story add. to each, 32x97 feet and 79x97 feet. Permit granted.

Residences (2), Tyson street, East of Bingham street, Philadelphia, $6,500. Architect, private plans. Owner, Victor Dick, 7310 Oxford pike, Philadelphia. Frame, 2 stories, 40x26 feet, 24x36 feet, pine floors, hot water heat, electric light. Permit granted.

Residence, East side Bingham street, South of Tyson street, $3,000. Architect, private plans. Owner, M. Glaser, 1200 Cottman street, Philadelphia. Frame, 2 stories, 24x36 feet, pine floors, electric light. Permit granted.

Residences (103), Sixty-ninth street, Chelwynde, Dicks, Sylman and Garman avenues, $523,000. Architect, private plans. Owners, Shapiro & Reed, 1530 South Fifty-seventh street, Philadelphia. Brick, 2 stories, (95) 15x26 feet, 12x8 feet, (8) 16x34 feet, slag roof, hardwood and pine floors, hot water heat. Permit granted.

Residences (27), Mascher, Edna, Fern, Spencer and Champlost avenues, $136,800. Architect, private plans. Owner, Joseph Sheperla, 1552 Wayne avenue, Philadelphia. Brick, 2 stories, (21) 15x28 feet, 12x10 feet, (6) 16x38 feet, slag roof, hot water heat, electric light. Permit granted.

Residences (31), Seventeenth and Sixty-eighth avenue, Philadelphia, $233,500. Architect, private plans. Owner, George W. McCracken, 2528 West Lehigh avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, East side Ardleigh street, South of Benezet street, Philadelphia, $10,000. Architect, private plans. Owner, Emil Lorenzen, Ardleigh street below Benezet. Stone, 3 stories, 26x48 feet, 21x10 feet, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (8), Cottman and Loretto and Lawndale and Shelmire, $5,000 each. Architect, private plans. Owners, Louis Leitenberger Sons, 7345 Oxford street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (35), Barclay, Ainslie and Vaux streets, Philadelphia, $161,500. Architect, private plans. Owner, M. J. McCrudden, 1134 Real Estate Trust Building, Philadelphia. Brick, 2 stories, 16x25 feet, 16x30 feet and 16x32 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (39), Charles and Bridge streets, Philadelphia, $176,500. Architect, private plans. Owners, Branagan & Egolf, 1739 Bridge street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Auto Sub-Station, Eleventh street, South of Pattison avenue, Philadelphia, $35,000. Owners, Philadelphia, Rapid Transit Co., Eighth and Dauphin streets, Philadelphia. Concrete and brick, 1 story, 41x43 feet. Permit granted.

Residence, West side Bustleton avenue, North of Byberry road, $7,500. Architect, private plans. Owner, H. K. Depue, Somerton, Philadelphia. Tile, 3 stories, 38x34 feet, 12x12 feet, hot water heat, electric light. Permit granted.

Residences (9), North side Howarth street, East of Walker street, $5,000 each. Architect, private plans. Owner, William H. Yelland, Jr., 1350 Harrison street, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, pine and hardwood floors, hot water heat, electric light. Permit granted.

Residences (2), West side Rockwell avenue, North of Cottman street, $4,500 each. Architect, private plans. Owner, Louis Gebhardt, 7039 Rising Sun avenue, Philadelphia. Brick, 2 stories, 14x40 feet, 6x4 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Apartment House (alts. and add.), Northwest Corner Thirty-second and Page streets, $4,000. Architect, private plans. Owner, Alex. Bass, 1011 Cherry street, Philadelphia. Brick, 1 story add., 8x16 feet, general alterations. Permit granted.

Miscellaneous Work, Philadelphia. Low bidders. Owners, Department of Public Works, Bureau of Highways, City Hall. Bingham street and others, Duffin Brothers, 1623 East Lycoming street, Philadelphia, $8,568.14. Cayuga street and others, Dewees Brothers, Fifth and Fisher's avenue, Philadelphia, $62,-656.80. Ditman street, Levick street and Hellerman, R. B. Werner, 2316 Walnut street, Philadelphia, $2,226. Aramingo avenue, Westmoreland to Ontario, R. B. Werner, 2315 Walnut street, Philadelphia, $3,669.75. Edna street and others, James F. Nolen & Sons, 64 East Church lane, $41,082. Glenlock street and Jackson street, Roy B. Werner, 2315 Walnut street, $2,328. Loney street and others, Roy B. Werner, 2315 Walnut street, $26,-112.43. Lowber street and others, S. C. Rotzell, Limekiln Pike, $24,388.61. Magee street, Oxford avenue to Castor, James D. Dewey, care of owner, $12,018.21.

Schedule B—Alresford, Salmon to Edgemont, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $2,695.30. Walnut lane, Alsop to Seventy-fourth street, Mack Paving & Const. Co., Nicetown lane and C street, $9,403.70. Sixteenth street, Sixty-sixth to Sixty-seventh avenues, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $10,-168.93. Twentieth and Thorp's lane to Kemble avenue, Mack Paving Co., Nicetown lane and C street, $14,546.95.

Schedule C—Haverford avenue, Fortieth to Fifty-second street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $163,951.70. Wharton street, Twenty-eighth to Thirty-fourth street, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $36,990.67. Forty-third street, Pine to a point about 217 feet North of Baltimore, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $8,692.

Schedule D—Addison street, Van Pelt to Twenty-second street, Acchione & Canuso, 804 South Twelfth street, Philadelphia, $37,-223.25. Spruce street, Forty-fifth to Fifty-fourth street, Municipal Paving Co., 702 Catherine street, Philadelphia, $51,617.48. Spruce street, Thirty-fourth to Woodland avenue, Baton Const. Co., 1713 Sansom street, Philadelphia, $14,104.85. Sixteenth street, Susquehanna to Cumberland; Sixteenth street, Cumberland to Glenwood avenue, Municipal Paving Co., 702 Catherine street, Philadelphia, $31,496.51. Seventeenth street, Lehigh avenue, Clearfield street, Municipal Paving Co., 702 Catherine street, $74,517.74. Sixtieth, Girard to Lansdowne avenue, Baton Const. Co., 1713 Sansom street, Philadelphia, $25,127.75.

Schedule E—Frank C. Graham, 715 North Delaware avenue, $9,292.50.

Schedule F—Philadelphia Stack & Tank Works, 50 North Twenty-third street, $3,085.

Schedule H—Improvement of Broad street and Packer avenue, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $17,-182.50.

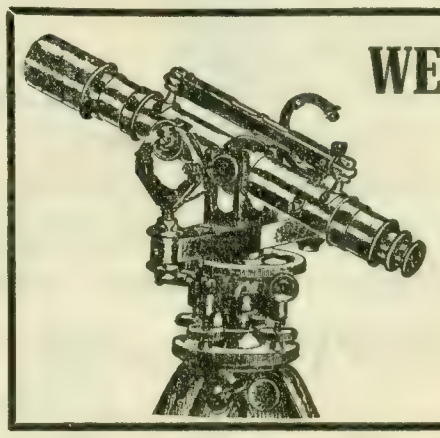
Schedule L—Headley Good Roads Co., Franklin Trust Building, $11,235.

Schedule J—Barber Asphalt Co., 1600 Arch street, Philadelphia, $4,350. Motor trucks, William C. Mulholland, 326 West York street, $25,500.

Proposal

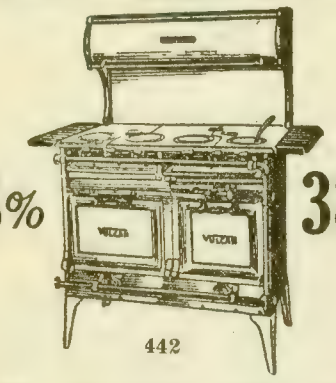
TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 20, 1926.—SEALED PROPOSALS will be opened in this office at 3 P. M., April 13, 1926, for remodeling and enlarging the U. S. Post Office at Chester, Pa. Drawings and specifications may be obtained from the Custodian at Chester, Pa., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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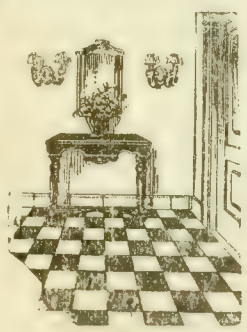


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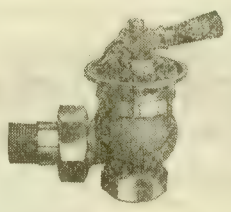
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Reproduction of High Street 150 Years Ago, including 22 Buildings (miscellaneous), Broad and Pattison avenue, Philadelphia. Architects, R. Brognard Okie, 306 South Smedley street; Bissell & Sinkler, 1520 Locust street, Philadelphia. Owners, Women's Committee of the Sesqui-Centennial, Mrs. J. Willis Martin, chairman, Fifth and Chestnut streets, Philadelphia. Frame and staff, 2 and 1 stories, various sizes, shingle roof, pine floors. Contract awarded Fred A. Havens Co., 845 North Nineteenth street, Philadelphia.

Church, Twelfth and Mellon streets, Philadelphia. Architects, Gilmore & Talley, Philadelphia. Zoar M. E. Church, 1315 N. 15th St., Philadelphia. Brick, 2 stories and basement, 15x50 feet, steam heat, electric light, tin roof, pine floors, metal lath, ornamental iron work. Contract awarded J. F. Trent, Nineteenth and Addison avenue, Philadelphia.

Store Building, 5406-08 Frankford avenue, Philadelphia. Architect, Harold Holmes, Architectural Department, S. S. Kresge Co., Detroit, Mich. Owners, S. S. Kresge Co., Detroit, Mich. Brick, cut stone, granite, steel, 2 stories and basement, 95x41 feet, slag roof, roof ventilators, Barrett specification roof, cement, maple floors, painting and glazing, metal window guards, metal weather stripping, integral waterproofing, steam heat, metal lath, electric light, tile and marble work, iron work, rolled steel sash, Monitor skylights, bond, tin-clad doors, sidewalk lifts, sprinkler system. Contract awarded Mitten-Scoble Co., Cleveland, Ohio.

Store Building, Southeast Corner Emlen and Sharpnack streets, $7,500. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owner, H. A. P. Rosen, 4938 North Ninth street, Philadelphia. Brick, 3 stories, 16x56 feet, slag roof, pine floors, electric work. Contract awarded to S. H. Levin, Elrae Building, Philadelphia.

Residence, 1204 Rodman street, Philadelphia, $5,000. Architect, private plans. Owners, Levin Brothers, 409 South Thirteenth street, Philadelphia. Brick, 3 stories, slag roof, pine floors, hot air heat, electric light. Contract awarded to Givo Lignano, 906 Christian street, Philadelphia.

Residence, North side Buist avenue, West of Penway, Philadelphia, $3,000. Architect, private plans. Owner, Stefano Szalbek, on premises. Brick, 2 stories, 24x36 feet, slag roof, pine floors. Contract awarded to B. Dick, Burholme, Philadelphia.

Factory (alts.), 1229 Callowhill street, Philadelphia, $2,000. Architect, private plans. Owners, National Paper Box Co., on premises. General alterations. Contract awarded to P. M. Sax, Penfield Building, Philadelphia.

Stores and Offices (alts.), 1101 Broadway, Camden, N. J., $8,000. Architect, private plans. Owner, Hyman Hoffman, 1477 Bradley avenue, Camden, N. J. General alterations. Contract awarded to William Wrifford, 724 Washington street, Camden, N. J.

Exposition Building No. 5, Machinery, Mines, Metallurgy and Transportation, Northwest Corner Broad and Government avenue, Philadelphia. City architect, John Molitor, 1314 Walnut street, Philadelphia. Owners, Sesqui-Centennial Exposition, A. C. Baker and Freeland Kendrick, City Hall, Philadelphia. Reinforced concrete, brick, steel, metal lath, stucco, 1 story, 925x170 feet, wing 880x40 feet (plumbing, electric separate contract), metal lath, rolled steel tin-lined doors, built-up roof, cement and pine floors, asbestos wall boards, painting and glazing, roof ventilators, integral waterproofing, dampproofing, piling (separate contracts to be let by owner), plumbing, toilet partitions, electric work, sidewalks, grading, landscaping, boiler and power installation, railroad tracks, traveling crane anr runway, turntables and pit foundations, esculators, flooring throughout, main exposition spaces. Contract awarded M. Melody & Son, 1322 Race street, Philadelphia.

Post Office Building, 3614 North Fifteenth street, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owner, name withheld. Brick, 1 story and basement, 108x50 feet, vacuum heat, slag roof, cement floors, lighting allowance $2,000, metal lath, marble and terrazzo work, rolled steel sash and skylights, bond, ornamental iron work, roof ventilators, plumbing, artificial stone, area gratings. Contract awarded John Schnabel, Abbott Building, Philadelphia.

Oxford Sub-Station, Nineteenth and Oxford streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., W.

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C. L. Eglin, Tenth and Chestnut streets, Philadelphia. Brick, cut stone, reinforced concrete, steel, 1 story and basement, 100x60 feet, wing 19x15 feet, slag roof, cement floors, steam heat (electric work reserved), cement floors, plumbing, waterproofing, metal lath, tile and marble work, hollow metal doors, bond. Contract awarded F. K. Worley Corp., Wesley Building, Philadelphia.

Official Registration Pavilion, Broad and Pattison avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, Sesqui-Centennial Exposition, Fifth and Chestnut street, Philadelphia. Frame, 1 story, 600x60 feet, slag roof, pine floors, electric light, painting and glazing, hardware. Contract awarded Haverstick & Borthwick, Schaff Building, Philadelphia.

Warehouse (add.), 5521 Market street, Philadelphia. Architect, private plans. Owners, Advance Storage Co., on premises. Reinforced concrete brick, steel, 3 stories add., 125x38 feet, slag roof, cement floors, steam heat, electric light, metal lath, architectural terra cotta. Contract awarded F. G. Stewart, 1520 Locust street, Philadelphia.

Residence (alts. and add.), Chestnut Hill, Pa. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, Philemon Dickinson, Chestnut Hill, Pa. Cut stone, cement work, waterproofing, carpentry and mill work, iron work, plastering, hardware, painting, plumbing, electric light, metal lath, metal weather stripping. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia.

New Station Building and Alterations to Bridge, Tabor road and Fifth street, Philadelphia. Architect, S. T. Wagner, Reading Terminal Building, Philadelphia. Owners, Philadelphia & Reading Railroad, Twelfth and Market streets, Philadelphia. Brick, steel, 1 story, 40x18 feet, 41x17 feet, hot water heat, electric light, asbestos built-up roof, pine floors, cement work, rolled steel sash, bond, ornamental iron work, membrane waterproofing, architectural terra cotta. Contract awarded C. C. Pace, Cynwyd, Pa.

Manufacturing Building and Warehouses (2), Second and Erie avenue, Philadelphia, $200,000. Architects, Klipstein & Rathman, St. Louis, Mo. Owners, Certain-Teed Products Corp., on premises. Brick, concrete, steel, 1 story, 71x144 feet and 49x207 feet. Contract awarded to Stoffiet & Tillotson, Wesley Building, Philadelphia.

Church (add.), Southwest Corner Tioga and F streets, Philadelphia, $65,000. Architect, George Savage, Witherspoon Building, Philadelphia. Owners, St. Philip's Methodist Episcopal Church, on premises. Stone, 1 story add., 56x105 feet, variegated slate roof, pine floors, electric work, metal lath, ornamental iron, carpentry, mill work, brick, cement, plastering, painting, reinforced concrete, plumbing, bond. Contract awarded to G. B. Bond, Thirteenth street and Sixty-sixth avenue, Philadelphia.

Alterations and Additions to Store Building, 1427 Fairmount avenue. Architect, private plans. Owners, R. & B. Radiation Co., on premises. Brick work, skylights, plate glass, electric work, metal ceilings, pine floors, slag roof. Contract awarded National Const. Co., 26 South Fifteenth street, Philadelphia, who is taking sub-bids.

Stores (alts. and add.), 133 South Fifteenth street, Philadelphia. Architect, private plans. Owner, William George, on premises. Mill work, slate work, galvanized cornice work, plate glass, brick work, electric light, marble work. Contract awarded National Const. Co., 26 South Fifteenth street, Philadelphia, who is taking sub-bids.

Residence (alts. and add.), 300 East Haines street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, Joseph Stagnolia, 302 East Haines street, Philadelphia. Brick, 2 stories, 16x20 feet, slag roof, pine floors. Contract awarded D. D. Steel, Darby, Pa.

Residence (add.), 306 East Haines street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, 2 stories, 14x45 feet, slag roof, pine floors, metal work. Contract awarded D. D. Steel, Darby, Pa.

Residences (alts. and add.), 5822 Chestnut street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, 2 stories, 15x30 feet, slag roof, hardwood floors, hot water heat, electric light, 2 tile baths, ornamental iron work. Contract awarded N. Corson Shallcross, 7102 York road, Philadelphia, who is taking sub-bids.

Residence (alts. and add.), 5812 Chestnut street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, Mrs. H. Renyi, on premises. Brick, 2 stories, 36x15 feet, slag roof, hardwood floors, electric light, tile work. Contract awarded M. Corson Shallcross, 7102 York road, Philadelphia.

Stores and Apartment, Ogontz avenue and Church lane, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Ogontz & Church Lane Realty Co., care of architect. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Theatre, Ogontz avenue and Church lane, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street; Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Ogontz & Church Lane Realty Co., care of architect. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Manufacturing Building, Thirtieth and Oakford streets, Philadelphia, $8,000. Architect, private plans. Owner, John P. Murdock, Fifty-fourth and Westminster avenue, Philadelphia. Brick, 1 story, 40 feet 6 inches x 75 feet, electric work, slag roof. Contract awarded to Harry G. Walters, 412 North Fortieth street, Philadelphia.

Residence (add. and alts.), 631 West Sedgwick avenue, $5,000. Architect, private plans. Owner, A. E. Allman, 918 Boulevard avenue, Philadelphia. Brick, 1 story add., 16x14 feet, general alterations. Contract awarded to John DePaul & Brothers, 80 East Sharpnack street.

Residence (add.), 419 South Eighteenth street, Philadelphia, $3,000. Architect, private plans. Owner, James D. Howard, 410 South Eighteenth street, Philadelphia. Brick, 2 stories add., 18x18 feet. Contract awarded to E. D. Turner, Bryn Mawr, Pa.

Stores (4) and Apartment, Southwest Corner Eleventh and Lowden sterets, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, Samuel Saler, 4756 North Eleventh street, Philadelphia. Brick, 2 stories, 15x78 feet, hot water heat, electric light, slag roof, hardwood and composition floors, fireproof partitions, metal bulks, tile work, plate glass. Contract awarded Girard Realty Cont. Co., 1022 Arch street, Philadelphia.

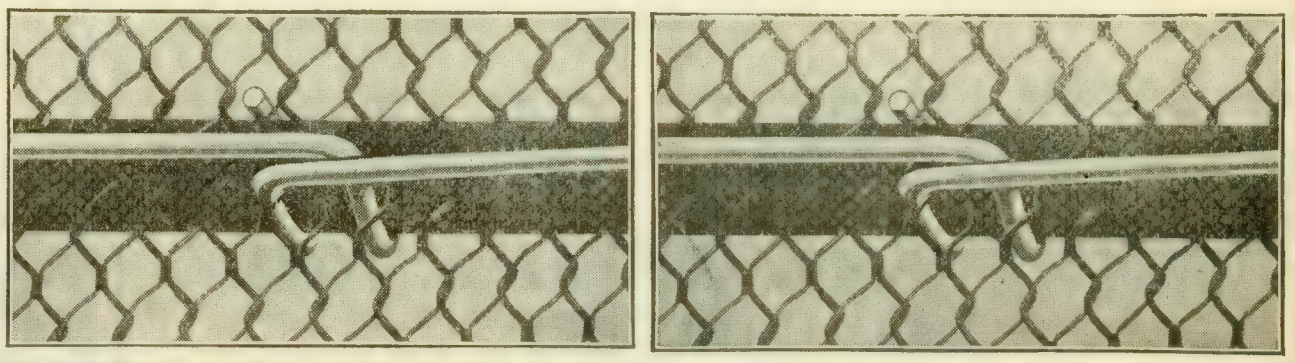
Residence, Southeast Corner Glenn and Academy road, Philadelphia, $8,500. Architect, private plans. Owner, William Hendrick, Red Lion road, Philadelphia. Frame and brick, 2 stories, 16x48 feet, 18x34 feet, hardwood and pine floors, electric light. Contract awarded to John A. Cunningham, Byberry road, Philadelphia.

Garage, 430-32-34 North Darien street, Philadelphia, $5,000. Architect, private plans. Owner, T. H. Foster, Ottumwa, Iowa. Brick, 1 story, 40x47 feet, slag roof, cement floors, electric work. Contract awarded to T. A. Stoutenburg, 2102 Market street, Philadelphia.

Residence, South side Aubry avenue, East of Hagerman street, $5,000. Architect, private plans. Owner, Peter J. McCabe, Convent and Torresdale avenue, Philadelphia. Frame, 2 stories, 24x36 feet, shingle roof, pine floors, hot water heat. Contract awarded to Malcher & McCabe, Convent and Torresdale avenue.

Store (alts.), 138 South Eighth street, Phil-

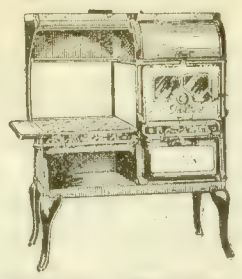
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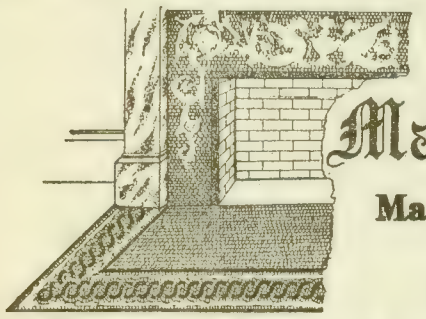
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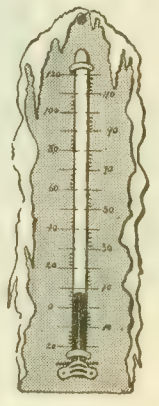
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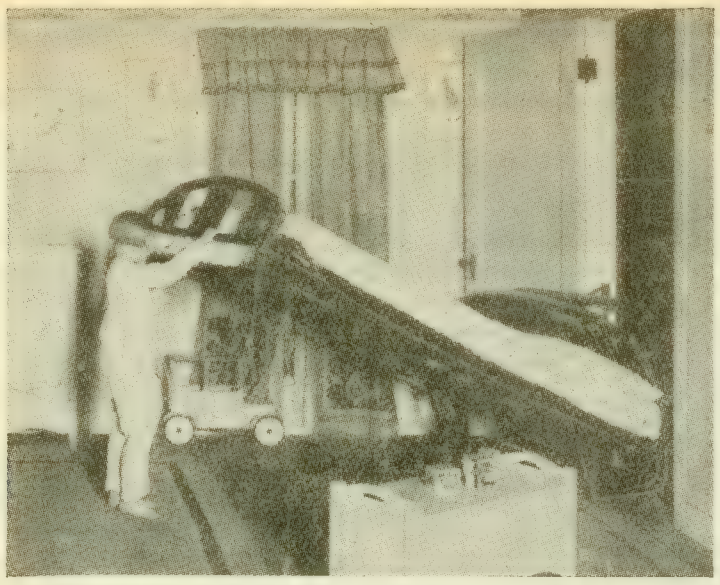
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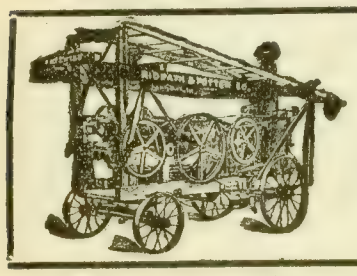
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adelphia, $4,400. Architect, private plans. Owners, W. R. Cavickhoff & Kars, Finance Building, Philadelphia. General alterations. Contract awarded to S. Yellin & Sons, 222 North Eleventh street, Philadelphia.

Residences (10), East side Algard street, South of Longshore street, $4,050 each. Architect, private plans. Owner, Max Cohn, 3861 Poplar street, Philadelphia. Brick, 2 stories, 15x36 feet, hot water heat, electric light, pine floors. Contract awarded to Max Cohn, 3861 Poplar street, Philadelphia.

Residence, West side Roosevelt Boulevard, North of Cottman street, $10,000. Architect, private plans. Owner, John Reardon, Aramingo and Clearfield streets, Philadelphia. Stone, 2 stories, 32x54 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Charles Sinn, 201 East Robat street, Philadelphia.

Residence, East side Dorcas street, South of Shelmire street, Philadelphia, $14,000. Architect, private plans. Owner, Fred Polis, 1546 Cottman street, Philadelphia. Brick, 2 stories, 16x46 feet, 10x6 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Henry Youngvitsch, 1546 Cottman street, Philadelphia.

Factry (repairs), 621-23 Cherry street, Philadelphia, $5,000. Architect, private plans. Owner, Sarah McCaul, 329 Walnut street, Philadelphia. General fire repairs. Cantract awarded to William Easterbrook, 146 North Fourth street, Philadelphia.

Store and Residence (add.), Northeast Corner Large and Foulkrod streets, $5,000. Architect, private plans. Owner, Antonio Hartman, 1031 Foulkrod street, Philadelphia. Brick, 1 story add., 12x40 feet, slag roof, pine floors. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

Store and Residence (add.), 3411 Howell street, Philadelphia, $4,000. Architect, private plans. Owner, F. W. Schussler, 3411 Howell street, Philadelphia. Brick, 1 story add., 14x40 feet, slag roof, pine floors. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineers, City Hall. Contracts awarded—Branch sewers: Aldine street, Leon street to Rowland avenue, F. De Pasquale, Philadelphia, $7,434.50. Almond street, Venango to Pickwick street, McCool Const. Co., Broad and Passyunk avenue, $4,288.65. Carpenter's lane, Wayne avenue to point 320 feet Southwest, N. Cassetti, care of owners, $3,945.75. Ditman street, Cottman to Shelmire street, A. De Sandro Co., 3906 North Fifth street, Philadelphia, $16,389. Fourth street, Champlost to Godfrey avenue; Spencer, from Third to Fourth streets, A. Di Sandro & Son, 3906 North Fifth street, $15,953. Godfrey avenue, Fifth to Seventh street, A. Di Sandro & Son, 3906 North Fifth street, Philadelphia, $20,825.10. Hilton street, Thirty-second to Thirty-third street, H. H. Pizagno, care of owner, $6,283. Horrocks street, Cheltenham avenue to Sanger street; Anchor, Horrocks to Large, Peter & A. J. Ellis, 5724 North Marshall street, Philadelphia, $11,957.25. Ryan avenue, Leon to Rowland street, F. De Pasquale, care of owner, $13,116.00. Tabor road, Eleventh to York road, A. Di Sandro & Son, 3906 North Fifth street, Philadelphia, $17,435. Twenty-first, Sixty-sixth avenue, North to Independence street; Independence street, Woolstron to Twenty-first, A. Bonitatinus, 300 West Mt. Pleasant avenue, $7,750. Vernon road, Boyer to Sprague street, N. Cassetti, care of owner, $11,983. Tacony Creek Park, Tacony Creek to Rising Sun avenue, J. J. McHugh, 1617 Race street, Philadelphia, $35,649.02. Erie avenue, Casper street to Edgemont street, Mazzola & Marano, 739 South Seventh street, Philadelphia, $141,652. Westview, Wayne to Summitt West, N. Cassetti, care of owner, $5,033. Tudor street, Leon to Rowland avenue, W. H. Garson, 5032 Brown street, Philadelphia, $7,264.92. Keystone, Foust to Van Kirk street, Joseph Moss, 1652 Wakeling street, Philadelphia, $6,220.24.

Pennsylvania Construction News

Y. M. C. A. Main Building, Norristown, Pa., $225,000. Owners, Y. M. C. A., Norristown, Pa. Raising funds. Work contemplated.

Public Library, Mary R. Miller Memorial Library, Friends' Meeting House Grounds, Plymouth Meeting, Pa., $75,000. Architect, not yet selected. Owners, Care of Board of Trustees to be appointed by Plymouth Preparative Meeting of Friends. Work contemplated.

Elks' Home Add., Bristol, Pa. Architect, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, B. P. O. E., Clifford S. Anderson, Bristol, Pa. Brick, steel, 1 story and basement, 40x65 feet, slate roof. Sketches drawn.

Fire House (alts. and add.), Lansdowne, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. General alterations and additions. Plans about completed.

School, Paoli, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Tredyffrian Township School Board, A. W. Supplee, Paoli, Pa. Brick, 2 stories and basement. Preliminary plans in progress.

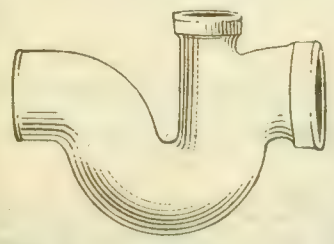
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High School, Abington, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Abington School Board, C. M. Doll, secretary, Glenside, Pa. Stone, steel, 1 story and basement. Plans in progress.

Community Building, Media, Pa. Architect, W. Macy Stanton, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, brick, steel, 1 story and basement. Preliminary plans in progress.

School, Strafford, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Tredyffrian Township School Board, A. W. Supplee, Paoli, Pa. Brick, 2 stories and basement. Preliminary plans in progress.

Residence, Reiffton, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owner, Herbert R. Heckman, 302 South Sixth street, Reading, Pa. Brick, 2½ stories, 26x28 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Church (Sunday School add.), Hazleton, Pa. Architect, not yet selected. Owners, Emmanuel Reformed Church, Rev. S. E. Stoffflett, Hazleton, Pa. Brick and stone, 1 story add. Work contemplated. Too early for details.

School, Langhorne, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Middletown Township School Board, J. Mather, president, Langhorne. Owners taking bids due March 27th, 4 P. M.

Grade School, Crest avenue, Bethlehem, Pa. **Washington Grade School (add.),** Bethlehem, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Bethlehem, Bethlehem, Pa. Owners taking bids due April 5th.

Apartment Building (alts. and add.), Hazleton, Pa. Architects, P. B. Sheridan and W. J. Crichton, Markle Bank Building, Hazleton, Pa. Owners, J. H. Kornbluth, Modern Millinery Shop, 118 West Broad street, Hazleton, Pa. Frame and stucco, 3 stories add., 36x80 feet, general alterations. Architects will be ready for bids in two weeks.

Rectory, Hazleton, Pa. Architects, P. B. Sheridan and W. J. Crichton, Markle Bank Building, Hazleton, Pa. Owners, Church of the Most Precious Blood, Rev. Francis Melino, 570 North Wyoming street, Hazleton, Pa. Brick or frame and stucco, 2½ stories. Plans in progress. Architects will be ready for bids in six weeks.

Sales and Service and Stores (5), Dance Hall, Manoa, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owner, W. G. Boyd, Manoa, Pa. Cement block and stucco, 2 stories and basement, 80x80 feet. Plans in progress.

Gymnasium Building, Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, City of Reading School District, Oscar Heim, secretary, Reading, Pa. Brick, concrete, 2 stories, 130x280 feet. Plans in progress.

Library (alts. and add.), Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Allentown Free Library, William Harris, care of Hess Brothers, 831 Hamilton street, Allentown, Pa. Brick, 3 stories, new front. Preliminary plans in progress.

Store and Apartment, Allentown, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, Paul Bower, 827 North Sixth street, Allentown, Pa. Brick, 2 stories and basement, 20x60 feet, slag roof, hardwood floors, vapor heat, electric light, marble work, copper work, plate glass. Plans in progress.

Hall, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Italian Building Corp., 417 Turner street, Allentown, Pa. Brick, steel, 2 stories, 120x50 feet, slag roof, maple floors, steam heat, electric light, metal lath, tile and marble work. Plans in progress.

Bridge (reconstruct), over Pennsylvania Railroad, Bala-Cynwyd, Pa., $73,000. Architect, private plans. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. Concrete and steel. Plans in progress.

Church Building, Yeadon, Pa. Owners, Yeadon Presbyterian Church, Rev. Dr. William Boyd, Lansdowne, Pa. Work contemplated. Too early for details.

Residence and Garage, Ardmore, Pa. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, J. D. Mosser, Brookline, Pa. Cement block and stucco, 2½ stories, 40x28 feet, hot water heat, electric light, slate roof, hardwood floors, 3 tile baths, alternate oil burning. Plans completed. Owner will build and is ready for sub-bids.

Factory (add.), Quakertown, Pa. Architect, William M. Michler, Drake Building, Easton, Pa. Owners, Shippman Knitting Mills, W. F. Ebers, Quakertown, Pa. Brick, steel, 2 stories and basement, 84x44 feet, built-up roof, concrete floors, elevators, waterproofing, fire doors, rolled steel skylights, electric light, metal lath. Architect ready for bids due in two weeks.

Store and Office (alts. and add.), Easton, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Farr Brothers, 739 Hamilton street, Allentown, Pa. Brick, 1 story, 30x79 feet, slag roof, hardwood floors, electric work. Architects ready for bids due in two weeks.

School, Hatboro, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadel-

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A deep firepot allows for deeper fuel bed and enables you to carry fire throughout the day or over night.

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4.

Waterways on the outside of the boiler instead of inside the firepot permits the grate and the firepot to be full size, thus increasing the coal carrying capacity of the boiler.

5.

High base which furnishes the proper air space between the hot ashes and the grates so as to give longer life to the grates.

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This ring prevents the lower portion of the firebed from coming in contact with the water sections which surround the firepot. The cool water returning from the radiators, enters both sides of the boiler at the bottom of the water section. This water, because it is much cooler than the fire, chills the fire around the sides of the pot, below the temperature of combustion. The result is, that the boiler requires more frequent attention. Also, partly burned fuel along the sides of the firepot is wasted because there is no fire under it to burn it and it settles down to the grates, passing to the ashpit when the fire is shaken.

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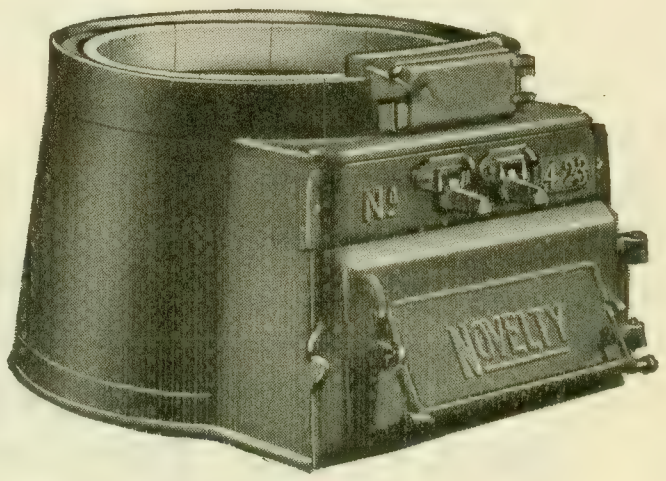


Illustration of Combustion Ring

phia. Owners, School Board of Education, Hatboro, Pa. Ready for bids in a week.

Stores (2), South Bethlehem, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, John Adams, 1502 East Second street, Bethlehem, Pa. Brick, 2 stories, 34x40 feet, slag roof, pine floors, hot water heat, electric light, plate glass, copper work. Owner will build.

Furniture Store, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Keystone Furniture Co., Nathan Becker, 463 Hamilton street, Allentown, Pa. Brick, steel, 2 stories, 60x120 feet, slag roof, hardwood floors, tile and marble, metal lath, integral heating, electric light, hollow tile. Owners will take bids.

Power House and Gymnasium, Abington High School, Abington, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Abington School Board, C. M. Doll, secretary, Glenside, Pa. Stone, steel, 1 story and basement. Ready for bids in a week.

School, Bechtelsville, Pa. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owners, Borough of Bechtelsville School Board, S. B. Himmelberg, secretary, Bechtelsville, Pa. Brick, 1 story, 4 rooms, concrete roof and floors, hot air heat, electric light. Owners ready for revised bids.

Garage, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Central Motor & Garage Co., Allentown, Pa. Reinforced concrete, steel and brick, 4 stories, 80x140 feet, built-up roof, concrete floors, hollow tile, elevators, waterproofing and dampproofing, floor hardener, fire doors, steel sash (heating, electric and plumbing separate). Architects ready for bids due April 10th.

Residences (12), Bethlehem, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Barney Flannery, Bethlehem, Pa. Brick, 2½ stories, 24x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for bids.

Stores and Apartments, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, F. F. Rogers, 1023 North Main street, Bethlehem, Pa. Brick, 3 stories, 45x73 feet. Architect ready for bids due April 7th.

School Building (add.), Cornwells, Bensalem Township, Bucks County, Pa. Architect, A. Oscar Martin, Hart Building, Doylestown, Pa. Owners, Bensalem Township School District, Cornwells, Pa., A. C. Lippincott. Stone, hollow tile, stucco, brick, 2 stories and basement, 32x49 feet, asbestos roof, maple floors, hollow tile, roof ventilators, metal weather strip, ornamental iron work, bond, metal lath, mineral floors, concrete block, metal toilet partitions. Owners taking bids due April 3rd, 2.30 P. M.

Church, Columbia, Pa. Architect, Paul A. Monaghan, 1520 Locust street, Philadelphia. Owners, Holy Trinity Roman Catholic Church, Rev. P. G. Brueggemenn, Columbia, Pa. Stone, cut stone, steel, 1 story and basement, 73x195 feet (heating, tile and terrazzo work reserved), slate roof, concrete floors, plumbing, cast stone, electric light, metal lath. Architect taking bids due March 25th.

Fire House (alts. and add.), Lansdowne, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Lansdowne Fire Co., Lansdowne, Pa. General alterations and additions. Architects taking bids due March 25th at noon.

Basemeit Church, Beverly Hills, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owners, United Presbyterian Church, Rev. C. O. Smith, 3806 Hamilton street. Stone, brick, 1 story, 70x70 feet, slag roof, pine floors, steam heat, electric light. Architects taking bids due March 25th.

Twin Residences (24 pairs), Folcroft, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, Roy Fosdick, Folcroft, Pa. Concrete block, stucco, 2½ stories, 16x60 feet, 16x50 feet, slate, surface shingle, rolling roof, hardwood floors, hot water heat, electric light, tile work, copper spouts. Architects taking bids due March 25th.

Residence and Garage, Main and Virginia avenues, Phoenixville, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owner, Mr. Frank P. Norris, Phoenixville, Pa. Brick, stone, stucco, steel, 2½ stories and basement, 20x65 feet, garage, 27x27 feet, variegated slate roof, oak, pine and cement floors, painting and glazing, waterproofing, ornamental iron work, bond, metal lath, tile and marble work, electric light, metal casement windows, area gratings. Architects taking bids due March 27th.

Store and Apartments (11), Collingdale, Pa. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owners, Marcus & Benn, 6316 Woodland avenue, Philadelphia. Cinder block and stucco, 2 stories, 18x50 feet, slag roof, pine and hardwood floors, hot water heat, electric light, tile work. Architects taking bids due as soon as possible.

Equipment for Building, Easton, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Mack Printing Co., Easton, Pa. Architects taking bids due March 26th.

Garage, Glenside, Pa. Architects, H. Rex Stackhouse and W. W. Donohue, 1120 Locust street, Philadelphia. Owner, Howard W. Unrich, Glenside, Pa. Cement block and stucco, 2 stories, 21x23 feet, slate roof, cement and pine floors. Architects taking bids due March 26th.

Sewers, Clifton Heights, Pa. Engineers, Damon & Fosters, Sixty-ninth and Market streets, Upper Darby, Pa. Owners, Borough of Clifton Heights, T. J. Faey, secretary, Clifton Heights, Pa. Certified check $150 must accompany each bid. Owners taking bids due April 1st, 8 P. M.

Street Paving, Coatesville, Pa. Engineer, George Rommel, Jr., Coatesville, Pa. Owners, Department Streets and Public Improvements, L. F. Hoffman, superintendent, Coatesville, Pa. One course reinforced concrete pavement, 10,000 square yards. Bituminous surface on old macadam base, 3,000 square yards. Sewer construction, Coatesville, Pa. Reinforced concrete pipe, excavating, laying pipe and constructing complete storm sewer. Owners taking bids due April 5th at 8 P. M. Certified check $1,000 on each.

Bridges, Pennsylvania. Architect, private plans. Owners, County Controller's Office, Pottsville, Pa. Reinforced concrete. Owners taking bids due April 2nd. Bridge No. 57, Moline, West Brunswick Township, Schuylkill County, Pa. Bridge No. 125, reinforced concrete and steel, 54 feet long, at Port Clinton, Schuylkill County, Pa. Bridge No. 27, Rausch's, East Brunswick Township, Schuylkill County, Pa., reinforced concrete, 75 feet long. Certified check 5 per cent. of the bids.

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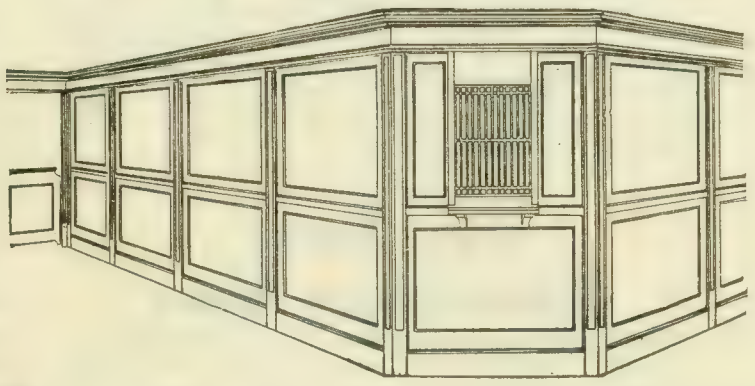
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Pennsylvania Contracts Awarded

Hospital (add.), Wilkes-Barre, Pa., $244,400. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Mercy Hospital, A. C. Campbell, secretary, Board of Trustees, Second National Bank Building, Wilkes-Barre, Pa. Brick, tile, fireproof, 4 stoires and basement, 44x100 feet, 44x70 feet, slag roof, composition floors, hollow tile, safety treads, metal weather strip, waterproofing and dampproofing, limestone, ornamental iron, iron stairs, bond, fire doors, skylight, tile and marble, metal lath. Contract awarded to Herman Mailander, 167 Barney street, Wilkes-Barre. Plumbing and heating to Joseph G. Schuler, Wilkes-Barre, Pa., $55,725.

Residence (alts.), Strafford, Pa. Architects, Willing, Sims & Talbutt, 128 South Eighteenth street, Philadelphia. Owner, Louis L. Smith, on premises. Oak and pine floors, carpentry and mill work, painting and glazing, plastering, hardware, 2½ stories and basement, tile work. Contract awarded Shroeder & Wood, 125 North Fifth street, Philadelphia.

Sandy Bank School (add.), Upper Providence Township, Pa. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Upper Providence Township School Board, Media, Pa. Stone, 4 rooms (plumbing, heating and electric work separate). Contract awarded to D. A. McClelland Co., Drexel Building, Philadelphia. Heating awarded to Horace W. White, Chester, Pa., $4,838. Plumbing awarded to Horace W. White, Chester, $2,580. Electric to E. F. Higgins, Wilmington, Del., $992.

Abington High School (add.), Susquehanna and Huntingdon roads, Abington. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, J. Oliver Potts, Glenside, C. M. Doll, Elkins Park, Pa. Stone, brick, cut stone, steel, 2 stories and basement, 53x62 feet (plumbing, heating, electric and ventilating separate bids), green slate roof, slag roof, composition, maple and cement floors, hollow tile, painting and glazing, dampproofing, metal lath, rolled steel skylights, bond, ornamental iron work, limestone, granite, area gratings, duraflex floors. Contract awarded D. Lutz & Co., Twenty-third and Chestnut streets, Philadelphia.

Grade School, Edgehill and Welsh roads, Overlook Hill, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Abington Township, J. Oliver Potts, Glenside, Charles M. Doll, Elkins Park, Pa. Brick, stone, cut stone, limestone, steel, 1 story and basement, 162x68 feet (plumbing, heating, electric, ventilating separate), variegated slate roof, cement, wood block, pine and composition and oak floors, hollow tile, composition treads, metal lath, tile and marble work, painting and glazing, copper skylights, bond, ornamental iron work, iron stairs, duraflex floors, granite, metal toilet partitions, precast stone, concrete blocks, area gratings. Contract awarded S. A. Sims, 2315 Walnut street, Philadelphia.

Grade School, Susquehanna and Johnston avenues, Roslyn, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Abington Township, J. Oliver Potts, Charles M. Doll, secretary, Elkins Park, Pa. Brick, cut stone, stone, limestone, steel, 1 story and basement, 162x68 feet, variegated slate roof, cement, wood block, composition and oak and pine floors, hollow tile, composition treads, painting and glazing, metal lath, tile and marble work, copper skylights, bond, ornamental iron work, iron stairs, duraflex floors, granite metal toilet partitions, precast stone, concrete block, area gratings. Contract awarded Roy Randall, Jenkintown, Pa.

Motor Building, Sixty-ninth street, Upper Darby, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, George Wilcox, care of architect. Brick, reinforced concrete, cut stone, cast stone, 2 stories and basement, 196x90 feet, irregular, slate roof, cement and composition floors, plumbing, steam heat, electric light, metal lath, hollow metal sash, fire doors, bond, ornamental iron work. Contract awarded Charles C. Pace, Merion, Pa,

Convent, South Ardmore, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owners, St. Denis' Roman Catholic Church, Rev. James J. Hasson, South Ardmore. Stone, brick, concrete, steel and limestone, granite, 3 stories and basement, 57x37 feet, slag roof, cement floors, painting and glazing, electric light, metal lath, tile and marble work, bond, ornamental iron work. Contract awarded M. L. Conneen & Son, 4023 Market street, Philadelphia.

Residence and Garage, Fairfex road, Drexel Park, Pa. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owner, Ralph Wheeler, City Center Building, Philadelphia. Brick, limestone, 2½ stories and basement, 1½ stories, 56x48 feet, garage, 15x19 feet, shingle roof, oak and pine and cement floors, plumbing, hot water heat, electric light, tile work, ornamental iron work. Contract awarded J. S. Creamer, 1739 North Twenty-sixth street, Philadelphia.

Residence and Garage, Drexel Hill Park, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. A. Branagen, care of architect. Stone, 3 stories, 35x42 feet, wing, 2 stories, 18x16 feet, garage, 2 stories, 43x23 feet, hot water heat, oil burning, electric light, slate roof, hardwood and cement floors, tile and marble work. Contract awarded C. C. Pace, Cynwyd, Pa.

Residences (4), Drexel Hill, Pa. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, A. B. Brewer, 4955 North Smedley street, Philadelphia. Cement block, stucco, 2½ stories, 18x30 feet each, wood shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded M. Corson Shallcross, 7102 York road, Philadelphia.

Residence, Fisher's road, Bryn Mawr, Pa. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Francis A. Lewis, 3rd, Land Title Building, Philadelphia. Stone, brick, 2½ stories, 120x35 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded R. C. Ballinger, 925 Walnut street, Philadelphia.

Ice Cream Plant, Northeast Corner Third and Brush streets, Allentown, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Brick, 1 story, 60x141 feet. Contract awarded to George H. Hardner, Lentz Building, Allentown, Pa.

New Jersey Construction News

Auditorium, Whitehorse, N. J., $45,000. Architects, Bureau of Architecture, 1703 Arch street, Philadelphia. Owners, Piersonville Methodist Episcopal Church, Rev. John A. Mason, Yardville, N. J. Brick, electric light, slate roof. Owners taking bids.

Service Station, 249 Marlton pike, Camden, N. J., $6,000. Architect, private plans. Owner, E. S. Hall, Montclaire, N. J. Block, 1 story, 12x16 feet, metal Spanish tile roof, cement floors. Permit granted.

Factory, Camden, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owner, name withheld. Cinder block, brick, steel, 2 stories, 40x100 feet, 20x30 feet, slag roof, concrete slow burning floors, freight elevators, steam heat, electric light, steel sash, fire doors. Plans in progress.

School (alts. and add.), Beach Haven, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, Beach Haven School Board, care of architect. Brick, steel, 2 stories, 4 rooms, slate or slag roof, maple floors, safety treads, roof ventilators, steam heat, electric light, metal lath, bond, reinforced concrete stairs. Plans in progress.

Fire House and Residence, Lakeland, Camden County, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Camden County Board of Freeholders, Fred George, City Hall, Camden, N. J. Brick, 1 and 2 stories, 21x56 feet, 30x45 feet, 35x30 feet, concrete and hardwood floors, electric light. Plans in progress.

Warehouse, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Crane & Co., 836 South Michigan avenue, Chicago, Ill. Mill construction and steel, 1 and 2 stories, irregular size, slag roof, cement floors, hollow tile, waterproofing and dampproofing, electric light, metal lath, steel sash, fire doors. Too early for details.

Office Building, Atlantic City, N .J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City. Owners, Pedrick Co., 1415 Atlantic avenue, Atlantic City. Brick, steel, 4 stories, 40x150 feet, concrete and hardwood floors, hollow tile, steam heat, electric light, metal lath, tile and marble. Plans in progress.

Residence, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, B. Teich, 370 Morris avenue, Trenton, N. J. Brick, 2½ stories, 30x45 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

Factory, Roselle, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Rapid Addressing Machine Co., T. D. Adams, president, 46 West Twenty-third street, New York. Brick, steel, 1 story and basement, 177x321 feet, saw-tooth roof, cement floors, steam heat, electric light, hollow metal skylights. Plans in progress. Architects will be ready for bids in about two weeks.

Apartment Houses (5), Twenty-second, Twenty-third, Fourteenth streets, Wildwood, N. J. Architect, private plans. Owners, National Const. Co., 26 South Fifteenth street, Philadelphia. Brick, 2 stories, 36x86 feet each, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Owners will build. Ready for sub-bids in two weeks.

Hotels (2), Wildwood avenue, Wildwood, N. J. Architect, private plans. Owners, National Const. Co., 26 South Fifteenth street, Philadelphia. Brick, 3 stories and basement, 40x85 feet each, shingle roof, slag roof, oak and pine floors, steam heat, electric light, tile work, ornamental iron work. Owners will build. Ready for sub-bids in 2 weeks.

Hotel, Poplar avenue and Wildwood avenue, Wildwood, N. J. Architect, private plans. Owners, National Const. Co., 26 South Fifteenth street, Philadelphia. Brick, 3 stories, 40x85 feet, 36 rooms, shingle roof, slag roof, oak and pine floors, steam heat, electric light, tile work, ornamental iron work. Ready for sub-bids in one week. Owners will build.

Store and Apartments (8), Oaklyn, N. J. Owner, David Barrist, care of The Exhibitor, Oaklyn, N. J. Brick, 2 stories, 16x50 feet, slag

roof, pine floors, hot water heat, electric light, flush bulks, plate glass. Owner is ready for general bids.

Brigantine Hotel, Brigantine, N. J. Architect, J. Vaughan Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Brigantine Const. Co., Brigantine, N. J. Brick, steel, reinforced concrete, 5 stories and basement, 214x53 feet, wing 70x133 feet, tile and slag roof, cement, maple and oak floors, hollow tile, elevators, safety treads, plumbing, waterproofing and dampproofing, architectural terra cotta, ornamental iron work, rolled steel sash, tile, marble and terrazzo work, metal lath, steam heat, electric light. Architect taking bids due March 31st.

Alterations and Additions, Jerico, Gloucester County, N. J. Architects, Hill & Golner, Broad Street Bank Building, Trenton, N. J. Owners, Deptford Township School Board, Deptford, N. J. Brick, cinder concrete block and cut stone, 77x24 feet, asbestos built-up roof, maple floors, metal lath, painting and glazing, dampproofing, ornamental iron work. Owners taking bids due March 26th, 7.30 P. M.

Grade School, Westville Grove, Gloucester County, N. J. Architects, Hill & Golner, Broad Street Bank Building, Trenton, N. J. Owners, Deptford Township School Board, Deptford, N. J. Brick, cut stone, steel, 1 story and basement, 82x25 feet, wing 43x62 feet, built-up and asbestos block, slate roof, maple floors, metal lath, tile work, painting and glazing, safety treads, dampproofing, ornamental iron work. Certified check or bid bond. Deposit, $25. Owners taking bids due March 26th, 7.30 P. M.

Residence, Moorestown, N. J. Architects, Edwards & Hoffman, 313 South Fifteenth street, Philadelphia. Owner, M. Albert Linton, Moorestown, N. J. Brick, 2½ stories and basement, 96x30 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Architects taking bids due March 30th.

Residence, Collingswood, N. J. Architect, J. C. Jefferis, 312 Market street, Camden, N. J. Owner, D. B. Robinson, Broad and Berkley streets, Camden, N. J. Brick, 2½ stories, 28x40 feet, asbestos roof, hardwood floors, tile work (heating reserved), electric light. Owner taking bids.

Church and Sunday School, Ocean City, N. J. Architect, H. M. McMichaels, Charlotte, N. C. Owners, First Baptist Church, Ocean City, N. J. Brick, cut stone (plumbing, heating, electric reserved), tile roof, concrete walls and tiers, inculite floors, blackboards, copper work, waterproofing, structural steel, iron work, painting and glazing. Bids due April 7th.

Warehouse, Sixth and Jackson streets, Camden, N. J. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Architect taking bids due March 26th.

Bridges (2), New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Hunterdon County, Route No. 9, at M. P. 16.3 and 17.0 over branches of Raritan River. (1) span 12 feet, (1) span 30 feet, with clear roadway width of 40 feet, 59,000 lbs. structural steel, 530 cubic yards concrete, 400 cubic yards excavation. Plans will be furnished on deposit of $10. Certified check for 10 per cent. of bid required. Owners taking bids due April 5th at noon.

Concrete Dam, New Brunswick, N. J. Engineer, Asher Atkinson, New Brunswick, N. J. Owners, Board of Commissioners, City of New Brunswick, Frank A. Connolly, Director, New Brunswick, N. J. Concrete dam across Lawrence Brook at Parson's Mills. Owners taking bids due April 6th at 10 A. M. Deposit of $10 required. Certified check for $5,000 required.

Residence, 905 North Thirty-fourth street, Camden, N. J., $3,500. Architect, private plans. Owner, Frank Fry, 902 North Thirty-third street, Camden, N. J. Frame, 1 story, 24x34 feet, slate surface roof, hot water heat, electric light, pine floors. Permit granted.

Garage and Show Room, 1137-39-41 Atlantic avenue, Camden, N. J., $15,000. Owners, Hensgen Brothers, 1140 Mechanic street, Camden, N. J. Brick, 2 and 1 stories, 60x26 feet, 60x69 feet, slag roof, cement floors, steam heat, electric light. Permit granted.

School (alts. and add.), Troy avenue, Ventnor City, N. J. Architects, H. E. Stoudt and W. B. Riebenack, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, Ventnor City, N. J. Brick, reinforced concrete, steel, cut stone, 2 stories and basement, 59x146 feet, slag roof, cement and maple floors, hollow tile, painting and glazing, safety treads, metal weather strip, waterproofing and dampproofing, metal lath, tile and marble work, rolled steel sash, kalamein doors, bond, floor hardener, iron stairs, ornamental iron work, wood files, area gratings, metal lockers, linoleum floors (plumbing, heating and electric separate). Low bidder: Lam Building Co., 1001 Wood street, Philadelphia, $264,849.

Residence, Merchantville, N. J. Architect, J. C. Jefferis, 312 Market street, Camden, N. J. Owner, J. W. Kolherman, Merchantville, N. J. Frame, stucco, 2½ stories, 28x34 feet, asbestos slate roof, hardwood floors, hot air heat, electric light, tile work. Owner taking bids.

Psychopathic and Convalescent Building, Housing for Physicians and Nurses' Home, Attendants' Building and Administration Building, State Hospital, Trenton, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Reinforced concrete, limestone, brick and steel, 2½ and 3 stories and basement, slate roof, hardwood floors, tile floors (heating, plumbing and electric separate bids). Lowest bidders: C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., $732,400; Thomas Day & Sons, Day Building, Trenton, N. J., $750,000. Plumbing, J. T. Evans, Wilkes-Barre, Pa., $64,869.48. Heating, Piper Brothers, 340 North Broad street, Trenton, N. J., $52,780. Electric, Mercer Electric Co., Fitzcharles Building, Trenton, N. J.

New Jersey Contracts Awarded

Building, 411 Broadway, Camden, N. J., $2,300. Architect, A. B. Gill, 305 Market street, Camden, N. J. Owner, Isaac Greenstein, on premises. Block, 1 story add., 17 feet 6 inches x 49 feet, slag roof. Contract awarded to A. D. Stewart, 505 Eleventh avenue, Haddonfield, N. J.

Building, Fifth street, Camden, N. J., $15,000. Architect, J. C. Jefferis, 312 Market street, Camden, N. J. Owners, Kind & Knox, Fifth street, Camden, N. J. Block, 1 story, 80x90 feet, slag roof. Contract awarded to L. T. West, Fifth and Royden streets, Camden, N. J.

Residence and Garage, Brigantine Beach, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, H. G. Harris, Guarantee Trust Building, Atlantic City, N. J. Brick, hollow tile, stucco, two stories, 58x69 feet, tile roof, cut stone, hardwood floors, tile and marble work, electric light, hot water heat. Contract awarded to Atlantic Construction Company, Atlantic City, N. J.

Sales and Show Room, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Studebaker Motor Co., Pleasantville, N. J. Brick, steel, stucco, one story, 50x160 feet, slag roof, concrete and maple floors, hot water heat, electric light, terra cotta. Contract awarded to Hiram Mathis, 120 Atlantic avenue, Atlantic City, N. J.

Office, Garage and Storage Building, Long Branch, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, American Poster Advertising Co., Trenton, N. J. Fireproof, one story, 50x105 feet, slag roof, concrete and wood floors, steam heat, electric light, metal lath, fire doors. Contract awarded to Jackson Bros., Trenton, N. J.

Building (add.), N. W. Cor. Haddon and Kaighn avenues, Camden, N. J., $50,000. Architect, private plans. Owners, Kausel & Co., on premises. Brick and block, one and three

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SURETY BONDS

stories, 40x64 feet, 16x16 feet, slag roof, steam heat, electric light. Contract awarded to Wm. Wrifford, 724 Washington street, Camden, N. J.

Residences (4), 1225-27-31-33 Magnolia avenue, Camden, N. J., $20,000. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Philip Kalipman, 126 North King street, Gloucester, N. J. Brick, two stories, 15x44 feet, slag roof, hot water heat, electric light, pine floors. Contract awarded to Harry Vansant, 550 Haddon avenue, Collingswood, N. J.

Residences (6), 1617-19-21-23-25-27 Norris street, Camden, N. J., $25,000. Architect, Harold Allen, 325 Stevens street, Camden, N. J. Owner, Joseph Zawisza, 1550 Louis street, Camden, N. J. Brick, two stories, 14x42 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Barney Poduszazek, 1628 Kolo street, Camden, N. J.

Laundry (add.), 1715-25 Mt. Ephraim avenue, Camden, N. J., $12,000. Architect, Thos. Stephen, Temple Building, Camden, N. J. Owners, Domestic Laundry, on premises. Block, one-story addition, 75x80 feet, 14x57 feet. Contract awarded to Frederick Fries, Haddon Heights, N. J.

Residences (10), 529-47 Fairview street, Camden, N. J., $35,000. Architect, private plans. Owner, Dr. Samuel Butler, 1000 Kaighn avenue, Camden, N. J. Brick, two stories, 16x 39 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to James Forman, Woodlynne, N. J.

Residences (5), 1339-41-43-45-45½ Lansdowne avenue, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Elizabeth Toy, care of architects. Brick and block, two stories, 14x42 feet 6 inches, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Frank R. Good Co., 531 Federal street, Camden, N. J.

Residence (add.), 1906 South Fourth street, Camden, N. J. Architert, private plans. Owner, Guiseppi Caruso, Camden, N. J. Brick, two-story addition, 14 feet 6 inches x 20 feet, slag roof, pine floors. Contract awarded to Guistino Capuzzi, 962 Ferry avenue, Camden, N. J.

Residences (2) (add.), 4100-02 Westfield avenue, Camden, N. J., $3,500. Architect, A. B. Gill, 304 Market street, Camden, N. J. Owner, M. Aristone, Camden, N. J. Brick, two stories, 14x14 feet, slag roof, hot air heat. Contract awarded to Wm. T. Harker, 112 North Thirty-sixth street, Camden, N. J.

Bulkheads and Necessary Fill, Wildwood, N. J. Engineer, H. E. Weir, Wildwood, N. J. Owners, City of Wildwood, N. J. Contract awarded to United Dredging Co., Wilmington, Del., $117,345.

Storm Sewer, Wildwood, N. J. Engineer, H. E. Weir, Wildwood, N. J. Owners, City of Wildwood, N. J. Contract awarded Versaagi Bros., Wildwood, N. J., $8,060.00.

Steel Pier (alt. and add.), Atlantic City, N. J. Architect, Wh. F. B. Kielle, Otis Building, Philadelphia. Owners, Steel Pier, Atlantic City, N. J. General alterations and additions. Contract awarded Philip G. Hannum, Atlantic City, N. J.

Miscellaneous Construction News

Hospital, Troy, N. Y. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, James A. Eddy Memorial, Troy, N. Y. Brick, steel, concrete, two stories. Plans in progress, ready for bids in one month.

Coagulating Basin, Wilmington, Del. Owners, City of Wilmington, Board of Water Commissioners, Wilmington, Del. Reinforced concrete, 55x160 feet, 18 deet deep. Lowest bidders: Selbyville Manufacturing Co., Selbyville, Del., and J. H. Hutchinson, Newark, Del. (joint bid), $69,642; Fred D. Carozza, Baltimore, Md., $70,620.

Miscellaneous Contracts Awarded

Road Work, Delaware. Owners, State Highway Commission, Dover, Del.

Contract 56 widening Pine Tree, Odessa, 3.66 miles. Contract awarded to F. W. Lovett, Newark, Del., $37,377; $43,665.

Contract CN-24, Grubbs Corner-Hamby's Corner, 0.81 miles. Contract awarded to Juniata Co., Emuire Building, Philadelphia.

Contract CK-33, through Farmington, 1.33 miles. Contract awarded to Old Line Construction Co., Chestertown, Md.

Edward Schoeppe, Architect, formerly of 316 South Fifteenth Street, Philadelphia, has opened new offices at 1437 Spruce Street, Philadelphia.

Robert McGonagle, Plasterer, of 3408 North Twenty-fourth Street, Philadelphia, has moved his office to 2313 Walnut Street, Philadelphia.

PAINTED WALLS

Painted walls, while as old as paint itself, have depended for their popularity, during the last decade or so, upon their efficiency as sanitary agents, and their durability as finishes. A painted wall was a plain wall; on account of the limitations of popular conception, its color range was limited, too.

Apparently some one, a few years ago, realized that in using paint on walls he was employing the ancient decorative medium with which the beautiful walls since time immemorial have been decorated. It is the same medium, with a color range almost limitless, when you consider the shades, tones and combinations that are possible, and all the practical utilitarian qualities that modern life demands.

Any number of colors may be used. For instance, the ground color may be light tan. The first sponge markings may be of delft blue, another of lavender gray and still another of pale yellow. This finish is extremely easy to execute and is very successful. No matter how many colors are used, the walls may be washed. Another advantage is that a truly flexible color scheme can be evolved, based upon the colors that are used in rugs, furniture or drapes. If a change in color schemes is desired, a new color may be added to the finish.—Keith's Magazine.

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FIRE RESISTANCE OF HOLLOW BUILDING TILE

Progress Report on Work at Bureau of Standards Has Just Been Released

For several years the Bureau of Standards, Department of Commerce, has been conducting tests on hollow tile in co-operation with the Hollow Building Tile Association. These tests are planned to yield more reliable information than is now available on the properties of hollow tile, such as the strength of walls and their ability to withstand the effects of severe fires. The annual progress report which has just been issued, is concerned principally with the fire tests.

For these tests walls 16 feet long and 11 feet high were built, and placed so as to form one wall of a furnace. The fire in the furnace during a test is regulated so that a temperature of 1700°F is reached after one hour, and 2150°F at the end of six hours, if the wall does not fail previously.

The tests show the effectiveness of the walls in preventing spread of fire. Some of the lighter 8-inch walls after several hours exposure become hot enough on the unexposed side to set cotton or excelsior on fire, and this was taken as a sign of failure. None of the walls failed by actual collapse.. The tests showed the great value of a protective coat of cement of gypsum plaster when walls are subjected to fire. The heavier 8-inch walls and the 12 and 16-inch walls showed very good fire resistance.

These tests are considered of great value to the industry and to the public in that they provide reliable data on the extent to which hollow tile walls can be relied upon for protection in case of fire.

Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides and, following them, you reach your destiny.—Carl Schurz.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

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Reference Directory for Architects, Builders and Owners

ARCHITECTURAL IRON WORK
laker City Art Metal Works, 2445 N. Second St., Phila.

ARTESIAN WELLS.
idpath & Potter Co., S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
lue Print Shop.....1520 Sansom St., Phila.
obbins, Chas. H., Co.....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.

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lue Print Shop.....1520 Sansom St., Phila.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS.
ivezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
ox, Janeway, & Co..Real Estate Trust Bldg., Phila.

BRICK (Face, Common, Paving).
etcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
itchell Bros. .....2125 Race St., Phila.
oseph Rotornado.....4740 Milnor St., Phila.

BUILDERS' SUPPLIES.
ervice Supply Corporation, 20th and Venango Sts., Phila.
he Van Sciver Corporation, The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co., Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
uskey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
ineland Architectural Cast Stone Works, Vineland, N. J.

CEMENT.
he Van Sciver Corporation. The Parkway at 24th St., Phila.
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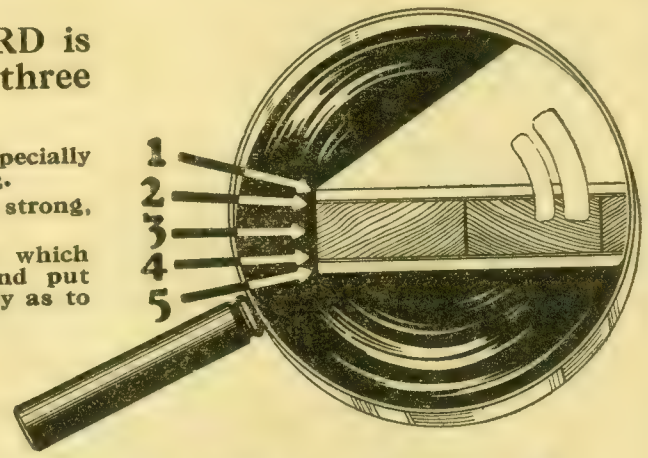
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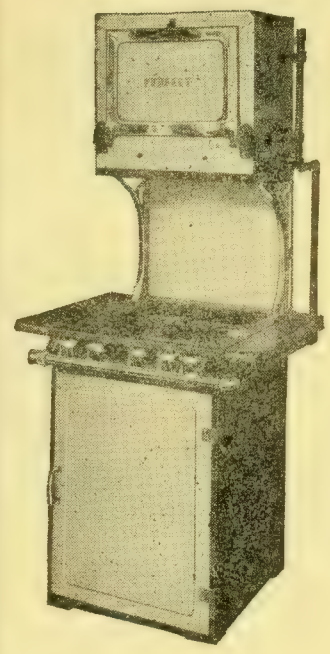
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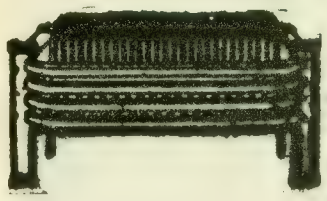
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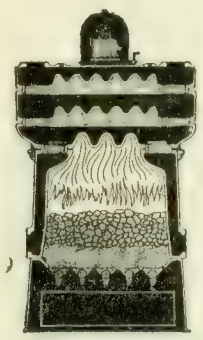
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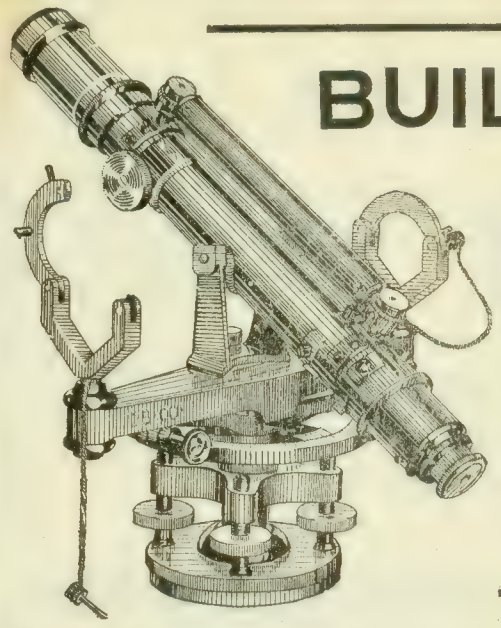
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Moving Picture Theatre, West Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, steel, limestone, terra cotta, concrete, 1 story, 1800 seating capacity, slag roof, cement floors. Plans in progress.

Frankford Theatre (alts.), 4711 Frankford avenue, Philadelphia. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owners, Frankford Theatre, on premises. New terra cotta front. Plans in progress.

Residence and Garage, Gates street, Roxborough, Philadelphia. Architect, A. C. Borzner, 717 Walnut street, Philadelphia. Owner, Henry Kauffman, Manayunk, Philadelphia. Stone, 2½ stories, 30x43 feet, hot water heat, electric light, slate roof, hardwood floors, electric light, tile work. Plans in progress.

Parochial School (add.), East Haines and Morton streets, Philadelphia. Architect, H. G. Hammer, 1716 Spring Garden street, Philadelphia. Owners, Our Lady of the Rosary, Italian Roman Catholic Church, Rev. Dominic Nepate, C. M., on premises. Two-room add. Preliminary plans to be started.

Apartment House, Eighteenth and Rittenhouse streets, Philadelphia. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owners, McIlvaine & Co., Otis Building, Philadelphia. Brick, steel, 12 stories, steam heat, electric light, composition roof, hardwood and cement floors, elevators, tile and marble work. Plans in progress.

Hotel Irving, 915-17 Walnut street (to Sansom), Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owner, care of architect. Stone, steel, brick, 5 stories, 55x235 feet, steam heat, electric light, metal lath, tile and marble work, rolled steel sash and skylights, kalamein doors, bond, ornamental iron work, slag roof, hardwood and marble floors, elevators, cast stone. Plans in progress.

Auto Sales Building, Garage and Service Station, Gasoline Filling Station, Hunting Park avenue and Sixteenth street, Philadelphia. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner and builder, Simon Kaplan, 243 South Sixty-second street, Philadelphia. Reinforced concrete, structural steel, brick, 2 stories, 180x217 feet x irregular, slag or concrete roof, concrete floors, steam heat, oil burning, electric light, rolled steel skylights, plate glass, fireproofing, ornamental iron work. Plans in progress.

House (alts.) and New Buildings, 725-735 Pine street, Philadelphia. Architects, H. Rex Stackhouse and W. W. Donohue, 1120 Locust street, Philadelphia. Owners, St. Joseph's House for Homeless Industrious Boys, Rev. T. J. Park, C. S. Sp., Director, on premises. Preliminary plans in progress. Too early for details.

Sunday School, Vaux street and Midvale avenue, Philadelphia. Architects, Franklin D. Edmunds and Frank Green, Real Estate Trust Building. Owners, Falls of Schuylkill Presbyterian Church, W. B. Cooke, 4504 Ridge avenue. Stone, 1 story, basement and gallery, 55x90 feet, slate roof, maple floors, steam heat, electric light. Plans completed.

Church, Twenty-first and Tasker streets, Philadelphia. Owners, King of Peace Italian Roman Catholic Church, Rev. W. A. Pelosi, 409 Dickinson street, Philadelphia. Work contemplated.

Residences (2) (alts. and add. for Chapel), 617-625 North Forty-third street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Parish of the Holy Saviour, Rev. Vincent A. Dever, on premises. General alterations and additions. Plans in progress.

Apartment Building, Southwest Corner Rockland and Carlisle streets, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Louis Wolfman, 902 West Wyoming avenue, Philadelphia. Brick, steel, 3 stories and basement, 36x88 feet, 12 apartments, slag roof, hardwood floors, Murphy beds, hot water heat, electric light, tile work, fire and kalamein doors. Owner ready for sub-bids.

Residence Operation, Lindley and Belfield avenues, Philadelphia. Architect, private plans. Owner, George Nahm, 2736 West Girard avenue, Philadelphia. Brick, 2 stories, 16x50 feet, slag, tile and slate roof, hardwood floors, hoe water heat, electric light, tile work. Owner will start first unit of operation about July.

Residences (105), Marshall and Sheridan and Seventh streets, Philadelphia. Architect, private plans. Owner, William L. Jones, 2860

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Store and Offices, 124 South Eleventh street, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, H. White, Esq., care of architect. Brick, cut stone, steel, 4 stories and basement, 20x88 feet, slag roof, maple floors, painting and glazing, plumbing, architectural terra cotta, steam heat, electric light, tile work, metal lath, rolled steel sash, galvanized iron skylights, rolled steel door, bond, ornamental iron work, elevator. J. F. Roystone, 705 East Girard avenue, Philadelphia, taking sub-bids due as soon as possible.

Apartment House, Northeast Corner Forty-eighth and Chester avenue, Philadelphia. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, David Sorkin, care of architect. Brick, structural steel, limestone, 4 stories, 41x128 feet, wing 8x20 feet, slag roof, hardwood, marble and linoleum floors, incinerator, elevator, Murphy beds, kitchen equipment, tile and marble work, ornamental iron work, vapor heat, oil burning. Will contain 40 apartments. Plans about completed. Owner will be ready for sub-bids in one week.

Church, Lincoln Drive and Upsal street, Philadelphia. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owners, Unitarian Congregation of Germantown, on premises. Brick, cut stone, stone, 1 and 2 stories and basement. Working plans in progress. Architect will be ready for bids May 15th.

Public School, Lyons avenue, Eighty-first and Eighty-second and Brunswick avenue, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, reinforced concrete, cut stone, granite, steel, 3 stories and basement, 212x85 feet, wing 78x35 feet (plumbing, heating, electric and ventilating separate), composition roof, cement, oak and pine floors, hollow tile, safety treads, metal weather strip, shoring, membrane waterproofing, ornamental iron work, floor hardener, bond, hollow metal doors, rolled steel sash and skylights, tile, marble and terrazzo work, metal lath, demolition, mastic, asphalt floors, area gratings, steel partitions, ornamental plaster. Owners taking bids due April 6th.

Public School, Seventeenth and Folsom and Swain streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, cut stone, reinforced concrete, granite, steel, 3 stories and basement (plumbing, heating, electric, ventilating separate), composition roof, cement, oak and pine floors, safety treads, metal weather strip, membrane waterproofing, architectural terra cotta, ornamental iron work, floor hardener, bond, hollow metal doors, rolled steel sash, tile, marble and terrazzo work, metal lath, demolition, steel partitions, area gratings, ornamental plaster. Owners taking bids due April 6th.

Theatre, Ogontz avenue, South of Chelten avenue, Philadelphia. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owners, Goldner Brothers, Greene and Chelten avenues, Philadelphia. Brick, reinforced concrete, stone, fireproofing, limestone, 1 story, 60x195 feet (electric work reserved), vapor heat, metal lath, tile and marble work, rolled steel sash, fire doors, ornamental iron work, slag roof, concrete and linoleum floors, hollow tile, roof ventilators. Owners taking bids due April 2nd.

Alterations and Additions to Manufaceuring Building, Salmon and Westmoreland streets. Architects, Webber & Wurster, 1530 Locust street, Philadelphia. Owners, Monarch Manufacturing Works, Inc., on premises. Brick, 1 story, 17x40 feet (electric reserved), steam heat, slag roof, cement floors, plumbing, rolled steel sash, oil tanks. Architects taking bids due April 1st.

Residence and Garage, Northeast Corner Wakeling and Large streets, Philadelphia. Architect, G. Harold Murphy, 356 Drexel Building, Philadelphia. Owner, C. I. MacDonough, care of Keystone State Const. Co., Franklin Bank Building, Philadelphia. Stone, cut stone, 2½ stories and 1 story and basement, 49x28 feet, garage 20x22 feet, variegated slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, bond, incinerator, oil burning equipment, excavation. Architect taking bids due April 5th.

Miscellaneous School Work, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Sanitary improvements in 12 schools. Owners taking bids due April 6th.

Recreation Center, Fourth and Shunk streets, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, Philadelphia. Plans about completed. Ready for bids in a few days.

Garages (6), South side Phil-Ellena street, West of Stenton avenue, Philadelphia, $3,000. Architects and owners, Johnson & Talley, McMahon Building, Philadelphia. Cinder block,

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1 story, 16x18 feet, slag roof, cement floors, electric work. Permit granted.

Residences and Stores (2), Garages (2), Cliveden and Wissahickon avenue, $63,000. Architect, private plans. Owner, John A. Seeds, 1028 West Upsal street, Philadelphia. Stone, 3 stories, 55x31 feet, 51x32 feet, garages, 2 stories, 22x25 feet, slate roof, hardwood, pine and cement floors, hot water heat, electric light, tile work. Permit granted.

Residences (2), West side Oakley street, South of Tyson street, $11,000 total. Architect, private plans. Owner, Anthony Lospaeluto, 1127 Moore street, Philadelphia. Brick, 2 stories, 16x49 feet, slag roof, hardwood and pine floors, electric light. Permit granted.

Residences (2), 6125-27 Ditman street, Philadelphia, $4,200 each. Architect, private plans. Owner, Fred W. Dietrich, Northeast Corner Frankford avenue and Devereaux street. Brick, 2 stories, 16x38 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (3), 3056-58-60 Edgemont street, Philadelphia, $3,000 each. Architect, private plans. Owner, Joseph Raucheisen, 3030 East Thompson street, Philadelphia. Brick, 2 stories, 15x26 feet, 12x13 feet, slag roof, pine floors. Permit granted.

Residences (50), Sixty-fourth and Garman streets, Philadelphia, $165,800. Architect, private plans. Owners, Holden, Sklar & Friedman, Fifty-seventh and Florence avenue, Philadelphia. Brick, 2 stories, slag roof, pine floors, various sizes, electric light, hot water heat. Permit granted.

Residences (8), Sixty-sixth avenue and Fairhill street, Philadelphia, $50,000. Architect, private plans. Owners, Johnson Contracting Co., 430 North Chew street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (11), West side Norwood street, South of Spencer street, $5,500 each. Architect, private plans. Owner, S. A. Buckman, 1128 Somerville avenue, Philadelphia. Brick, 2 stories, 14 feet 6 inches x 27 feet, 12x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (7), South side Monmouth street, East of Belgrade street, $4,000 each. Architect, private plans. Owner, A. Slawik, 3035 Edgemont street, Philadelphia. Brick, 2 stories, 14x23 feet, 11x13 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (8), Torresdale and Vista streets, Philadelphia, $39,000. Architect, private plans. Owner, Robert E. Greene, 400 Athwyn road, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Store and Residence, 846 Corinthian avenue, Philadelphia, $8,000. Architect, private plans. Owner, George A. Nahm, 2736 West Girard avenue, Philadelphia. Brick, 3 stories, 17 feet 10 inches x 47 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (64), Augusta, Van Kirk and Comly streets, Philadelphia, $6,000 each. Architect, private plans. Owner, John J. Foley, 4653 North Fourth street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (6), South side Phil-Ellena street, West of Stenton, $49,000. Architects and owners, Johnson & Talley, McMahon Building, Germantown, Philadelphia. Brick, 2 stories, 16x34 feet, 16x16 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Storage and Factory (alts.), 948-50-52 North Eighth street, $27,780. Architect, private plans. Owner, Hyman Barkan, 6201 Christian street, Philadelphia. General alterations. Permit granted.

Residences (15), Pleasant and Sprague streets, Philadelphia, $85,900. Architect, private plans. Owner, Charles A. Booth, 4355 Frankford avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, electric light. Permit granted.

Residences (2), 7516-18 Montour street, Philadelphia, $5,000 each. Architect, private plans. Owners, Betzel Brothers, 1225 Shelmire avenue, Philadelphia. Frame, 2 stories, 24x38 feet, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (30), Gransback and Rockland streets, Philadelphia, $126,000. Architect, private plans. Owner, Frank Schilling, 175 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (6), West side Sixtieth street, between Theodore and Brunner streets, $3,500 each. Architect, private plans. Owner, Thomas Cockerill, 2342 St. James Place, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, pine floors, hot air heat, electric light. Permit granted.

Residences (54), 3400-26 and 3401-27 Napfle street, Philadelphia; 3400-24 and 3401-25 Marple street, Philadelphia; $217,200. Owner, Allen Scull, 4918 Osage avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric lihgt. Permit granted.

Residences (18), Stevens and Oakley streets, and Shelburne and Lardner streets, Philadelphia, $73,000. Owner, M. H. Riegel, 337 East Chelten avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (13), West side Cottage street, North of Hartel street, $5,200 each. Architect, private plans. Owner, John Andreassi, 2240 Ellsworth street, Philadelphia. Brick, 2 stories, 16x31 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (19), East side Mascher street, North of Chew street, $5,000 each. Architect, private plans. Owners, Mulholland & Gotwals, 166 Chew street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (4), South side Decatur street, East of Erdrick street, $5,000 each. Architect, private plans. Owner, Carl F. Knauer, 8028 Frankford avenue, Philadelphia. Brick, 2 stories, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (19), Westfield road and Clarkson avenue, $86,500. Architect, private plans. Owners, C. F. & L .M. Conway, 4150 North Broad street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Storage Building (alts.), 1009 Race street, Philadelphai, $2,000. Architect, private plans. Owner, Jacob Pinkiero, 1007 Race street, Philadelphia. General alterations. Permit granted.

Palace of Fine Arts, Broad street, near Navy Yard, Philadelphia. City architect, John Molitor, Bankers' Trust Building, Philadelphia. Owners, Sesqui-Centennial Exposition, United States Government, care of R. J. Peace, 523 Chestnut street, Philadelphia. Structural steel, metal lath, stucco, 1 story, 220x500 feet, slag roof, pine floors, electric light, metal lath. Low bidders: Turner Const. Co., 1713 Sansom street, Philadelphia, $240,000; time, June 25, 1926; F. W. Mark Cont. Co., Commercial Trust Building,; $241,000; time, June 12, 1926.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Low bidders: Belfield avenue, Johnston to Montana; Cliveden, Chew to Belfield; F. Mark, 2820 North Twenty-first street, $20,380.92. Cottage, Levick to Magee, Dewees Brothers, Fifth and Fisher's avenue, Philadelphia, $3,165. Godfrey, Eleventh to Broad street, Morrissey Brothers, 4345 North Seventh street, $4,620.60. Hellerman, Frontelac to Castor road, F. Mark Contracting Co., 2820 North Twenty-first street, $8,043.48. Penn, Vaux to Conrad; Vaux, Warden Drive to School Lane, M. J. McCrudden, Real Estate Trust Building, $12,761.28. Ripley, Large to Horrocks; Naples, Horrocks to Bustleton, Morrissey Brothers, 4345 North Seventh street, Philadelphia, $9,364.12. Smylie road, Roosevelt Boulevard to F street, Morrissey Brothers, 4345 North Seventh street, Philadelphia, $2,951.21. Telden, Vaux to Conrad, M. J. McCrudden, Real Estate Trust Building, $15,091. Wadsworth, Crittenden to Stenton, S. C. Ratzell, Philadelphia, $1,535.95. Asphalt repaving: Brown street and others, Eastern Paving Co., Pennsylvania Building, Philadelphia, $75,895.79. Lehigh avenue, Second to Sixth, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $94,986.92. Orthodox, Frankford to Oakland to Adams, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $34,363.35. Chester avenue, Sixty-fifth, Sixty-sixth, Cobb's Creek Boulevard, Kingsessing, United Paving Co., Thirtieth and Locust streets, Philadelphia, $19,798.77. Re-

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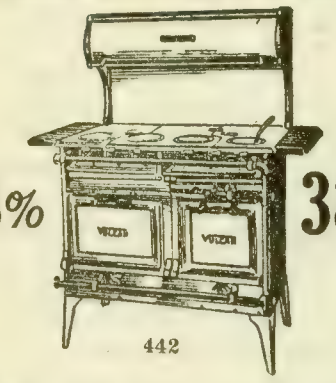
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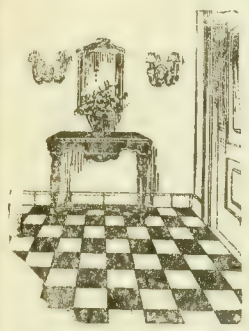
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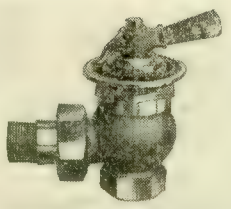
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moval of circular plot, Broad street, South of Oregon avenue, Union Paving Co., $2,994.03. Second, Lehigh to Allegheny, Municipal Paving Co., 702 Catherine street, Philadelphia, $38,610.

Miscellaneous Sewer Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Low bidders: Schedule A—Ashville street, Crispin to Rowland avenue, John Hastie, 601 East Hilton street, Philadelphia, $3,903.75. Brill street, Ditman to Torresdale avenue, John Hastie, 601 East Hilton street, Philadelphia, $9,542.05. Castor avenue, Longshore street to Tyson avenue, Perna Engr. & Contg. Co., 752 South Tenth street, $5,052.50. Comly street, Colgate street to Rising Sun avenue, De Mayo Brothers, Philadelphia, $10,801.80. Cottmann avenue, Frankford avenue to Walker street, J. J. McHugh, 1617 Race street, Philadelphia, $5,460. Decatur street, Crispin to Rowland avenue, John Hastie, 601 East Hilton street, Philadelphia, $4,035.35. Devereaux street, Castor avenue to Roosevelt Boulevard, P. Pinciooto, 1329 Tasker street, Philadelphia, $39,-203.50. Eleventh street, Champlost to Godfrey avenue, P. & A. J. Ellis, 5427 North Marshall street, Philadelphia, $23,354. James street, Princeton to Friendship avenue, Batterio & Ponterello, 602 Butler street, Philadelphia, $1,975.85. Large, Longshore to Tyson avenue, Batterio & Ponterello, 602 Butler street, $4,534.20. Longshore street, Castor to Horrocks, Batterio & Ponterello, 602 Butler street, $13,788.12. Loretto avenue, Sanger to Marcello street, Batterio & Ponterello, 602 Butler, $10,232.95. Marsden street, Princeton to Friendship, Batterio & Ponterello, 602 Butler street, $3,244.81. Moreland avenue, Devon to Winsto nroad, A. Perna & Son, 752 South Tenth street, $19,737.50. Pickwick street, Almond to Thompson, A. Mattio, Philadelphia, $2,468.15. Rowland avenue, Bleigh to Oakmont street, Batterio & Ponterello, 602 Butler street, $7,807.75. Sanger, Frontenac to Loretto avenue, A. Di Sandro & Son, 3906 North Fifth street, $4,515.15. Sanger, Summerdale to Langdon street, P. & A. J. Ellis, 5427 North Marshall street, $11,917.50. Seventeenth street, Chelten avenue to Sixty-fifth avenue, North, A. Bonitatimus, Philadelphia, $18,-581. Thompson street, South of Orthodox street to Alresford street, A. Mattio, Philadelphia, $4,724.60. Twentieth, Ogontz avenue to Seventy-third street, North, A. Frunzi, 513 High street, Philadelphia, $20,787. Upland Way, Coleman to Malvern avenue, A. Perna & Son, 752 South Tenth street, Philadelphia, $8,042. Schedule B—Main sewers: Greenwood, Cheltenham to Merion road, J. & R. Lombardi, Lincoln Building, Philadelphia, $45,975. Tulip, Sanger to Bridge street, Fred Buckius, Kensington and Deal street, $45,723.

Offices, West side Twenty-third street, North of Washington avenue, $12,000. Architect, private plans. Owner, Edward M. Harris, 2220 Chestnut street, Philadelphia. Brick, 2 stories, 20x150 feet, slag roof, electric lighting. Permit granted.

Residences (2), East side Dungan road, North of Aldine street, $10,000. Architect, private plans. Owner, Harry Gorelick, 2427 Douglas street, Philadelphia. Brick, 2 stories, 14x48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (2), South side Emerson street, East of D street, $4,000 each. Architect, private plans. Owner, John Bernhardt, 119 Fox street, Philadelphia. Brick, 2 stories, 15x36 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Alterations and Addition, 1501 Spruce street, Philadelphia. Engineer, William H. Gravell, Otis Building, Philadelphia. Owner, R. J. Seltzer, Jr., Fifteenth and Spruce street,s Philadelphia. Alterations to offices. Plans not yet started. Work contemplated.

School (alts. and add.), Forty-seventh and Springfield, Philadelphia. Architects, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, St. Francis De Sales, Rt. Rev. M. J. Crane, D. D., on premises. Stone, limestone, 2 stories and basement, 30x50 feet, slag roof, pine and cement floors, plumbing, plastering, painting and glazing, roof ventilators, shoring, architectural terra cotta, ornamental iron work, bond, hollow metal doors and sash, tile, marble and terrazzo work, electric light, metal lath, demolition, ornamental plaster. Architects taking bids due April 8th.

Factory, Twenty-first and Allegheny avenue, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, Steel Heddle Manufacturing Co., on premises. Brick, steel, concretefi 5 stories and basement, 212x145 feet, slag roof, cement floors, steam heat, electric light, elevator. Plans completed.

Convention Hall, Twenty-first and Parkway, Philadelphia, $5,000,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, City of Philadelphia, Department of City Property, Philadelphia. Plans in progress.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Office and Apartments (alts.), 1829 Pine street, Philadelphia, $5,000. Architect, private plans. Owner, Dr. Langbord, 4515 York road, Philadelphia. General alterations. Contract awarded to Harris Stern, 2004 North Marston street, Philadelphia.

Bakery (alts.), 113 North Nineteenth street, Philadelphia, $3,980. Architect, private plans. Owner, William Neiman, 115 North Nineteenth street, Philadelphia. General alterations. Contract awarded to Otto Malz, 2002 North Fourth street, Philadelphia.

Residences (7), Mt. Pleasant avenue, East of Emlen street, $3,000 each. Architect, private plans. Owner, Allen W, Kraft, 312 South Broad street, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Contract awarded to Dash & Lerner, 623 Durfor street, Philadelphia.

Store and Residence (add. and alts.), 248 South Fifty-second street, Philadelphia, $2,500. Architect, private plans. Owner, S. Ettinger, on premises. Brick, 1 story add., 16x12 feet, general alterations. Contract awarded to M. Levin, 2616 West Lehigh avenue, Philadelphia.

Store Building, 4034-36 Lancaster avenue, Philadelphia. Architect, Harold Holmes, Architectural and Engineering Department, Detroit, Mich. Owners, S. S. Kresge, Detroit, Mich. Brick, concrete, cut stone, steel, 1 and 2 stories and basement, 111x40 feet, wing 37x40 feet, built-up roof, maple floors, hollow tile, roof ventilators, integral waterproofing, ornamental iron work, metal bulks, tin-clad doors, tile and marble work, metal lath, steam heat, electric light, sprinkler, granite. Contract awarded Mitten Scoble Co., Cleveland, Ohio.

Residence, Bell Mill road, Chestnut Hill, Philadelphia. Architects, Willing, Sims & Talbutt, 123 South Eighteenth street, Philadelphia. Owner, Beauveau Borie, 128 South Eighteenth street, Philadelphia. Hollow tile, stucco, cut stone, 2½ stories and basement, 65x24 feet, wing 41x18 feet, tile roof, oak and pine, cement floors, hollow tile, painting and glazing, metal lath, tile work, bond, ornamental iron work, waterproofing, patent building block, limestone, flagstone, iron gratings, linoleum floors. Contract awarded E. R. Hall, 34 South Seventeenth street, Philadelphia.

Store Building, 622 Arch street, Philadelphia, $25,000. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owners, Uhr Electric Co., 19 North Seventh street, Philadelphia. Brick, steel, 4 stories and basement, 26x28 feet (electric, heating, sprinkler system reserved), slag roof, pine floors, elevator, plumbing, painting and glazing, carpentry, mill work, shoring, ornamental iron work, rolled steel sash, dumb waiters, magnesia floors. Contract awarded Zarch & Fisher, Real Estate Trust Building, Philadelphia. Architect ready for sub-bids on heating, sprinkler and electric.

Automobile Sales and Service Building, Broad street, South of Chelten avenue. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, George T. Flurer, Broad and Chelten avenue, Philadelphia. Brick, steel, reinforced concerte, granite, limestone, 1 story and basement, 187x64 feet, slag roof, cement and oak floors, painting and glazing, plumbing, integral waterproofing, dampproofing, ornamental iron work, ornamental plaster, bond, kalamein door, copper skylights, marble and terrazzo work, metal lath, electric light, vapor heat. Contract awarded Felix Claro, 10 South Eighteenth street, Philadelphia.

Office Building, Northwest Corner Ninth and Sansom streets, Philadelphia, $3,000,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, cut stone, steel, 23 stories and basement, 100x100 feet, slag roof, cement floors, elevators, steam heat, electric light, metal lath, tile and marble work, ornamental iron work. Contract awarded John N. Gill Const. Co., City Center Building, Philadelphia.

Synagogue and Community Center, Northeast Corner Sixty-third and Ludlow streets, Philadelphia, $350,000. Architects, Andrew J. Sauer Co., 1505 Race street, Philadelphia. Owners, West Philadelphia Jewish Community Center, on premises. Brick, steel, stone, 3 stories and basement, 179x108 feet, slag roof, cement, maple and linoleum floors, rolled steel sash and skylights, roof ventilators, architectural terra cotta, ornamental iron work, iron stairs. Contract awarded Max Haupt & Co., 901 Walnut street, Philadelphia.

Store Building, 919-23 Market street, Philadelphia. Architects, Construction Department, J. G. McCrory, 1107 Broadway, New York. Owners, J. G. McCrory Co., 1107 Broadway, New York City. Reinforced concrete, brick, steel, 6 stories and basement, 50x125 feet (plumbing, heating and electric reserved), slag roof, cement and pine floors, metal lath, tile work, rolled steel sash, bond, ornamental iron work. Contract awarded Hughes-Foulkrod, Commonwealth Building, Philadelphia.

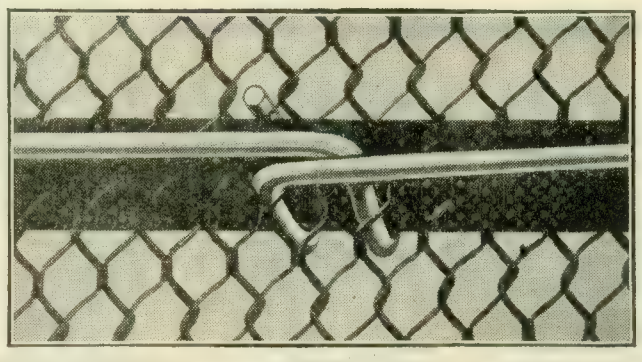
Garage, New street and Stenton avenue,

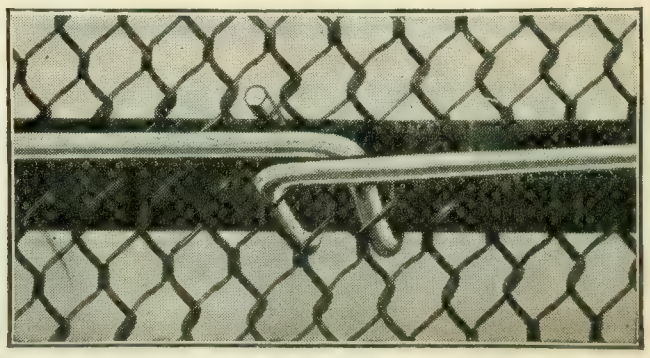
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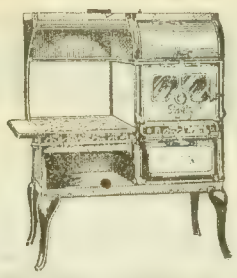




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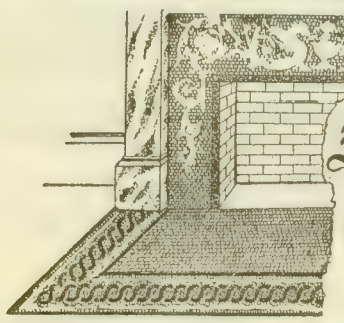
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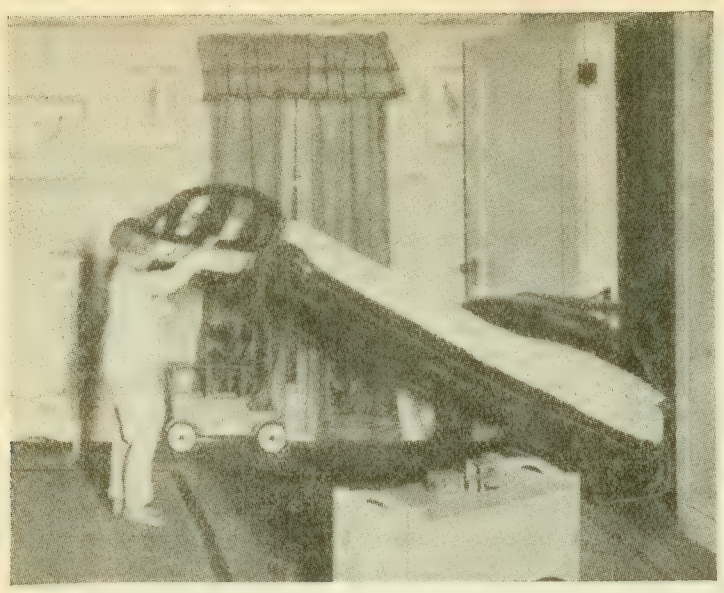
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Philadelphia. Architects, Willing, Sims & Talbut, 126 South Eighteenth street, Philadelphia. Owner, John Packard, 3rd, on premises. Stone, brick, cut stone, 1½ stories and basement, 34x25 feet, 27x18 feet, slate roof, cement floors, hollow tile, terra cotta, metal lath, hollow metal sash, bond, ornamental iron work, flagstone. Contract awarded William J. Ryder, 1725 Sansom street, Philadelphia.

Store Building (alts. and add.), 931-37 Market street, Philadelphia, $25,000. Architect, Harold Holmes, Construction Department, S. S. Kresge, Detroit, Mich. Owners, S. S. Kresge Co., care of Mr. Taylor, Benjamin Franklin Hotel, Philadelphia. Sprinkler, plumbing, concrete and cement work, iron work, steel work, sheet metal work, painting and glazing, metal lath, tile and terrazzo work, steam heat, electric light. Contract awarded F. W. Van Loon, Perry Building, Philadelphia.

Underground Passageways and Platforms at Stadium Terminal, Eleventh, Broad street and Pattison avenue, Philadelphia. Architect, private plans. Owners, Philadelphia Rapid Transit Co., Eighth and Dauphin streets, Philadelphia. Concrete piling, reinforced concrete, structural steel, miscellaneous steel, iron fence, drainage, waterproofing. Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia.

Manufacturing Building (add.), Eleventh and Brandywine streets, Philadelphia. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owners, E. J. Schoettle Co., E. J. Schoettle, president and treasurer, 533 North Eleventh street. Reinforced concrete and brick, steel, 9 stories and basement, 52x64 feet, wing 18x36 feet, electric light, Barrett Specification roof, cement and wood block floors, architectural terra cotta, ornamental iron work, floor hardener, bond, hollow metal doors, hollow metal sash, precast stone, bluestone, steam heat, electric light, elevators, plumbing, sprinkler. Contract awarded Nelson-Pedley Const. Co., Corn Exchange Building, Philadelphia, who are taking sub-bids, all mechanical work included.

Delaware Sesqui Buildings, Broad and Pattison avenue, Philadelphia. Architect, Clarence R. Hope, DuPont Building, Philadelphia. Owners, Delaware Sesqui-Centennial Committee, J. G. Highfield, Wilmington. Metal lath, stucco, 1 story, 80x32 feet, shingle roof and cement floors, painting and glazing, electric light, bond. Contract awarded W. Edward Pierce, 328 South Juniper street, Philadelphia.

Stores and Apartment, Bridge and Horrocks streets, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, Miss A. Marie Schadewald, 1305 Foulkrod street, Philadelphia. Brick, 2 stories and basement, 16x60 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Contract awarded George Remer, 4842 Hawthorne street, Philadelphia.

Synagogue, Fortieth and Powelton avenue, Philadelphia, $35,000. Architect, Martin T. Glass, 3710 Market street, Philadelphia. Owners, Congregation Anshe Riferth Israel, 4326 Market street, Philadelphia. Brick, 3 stories, 40x69 feet, steam heat, electric light. Contract awarded to Samuel Goldberg, 3710 Market street, Philadelphia.

Residences, West side Brighton street, North of Frontenac, $4,900. Architect, private plans. Owner, George Brantigan, 3459 Emerald street, Philadelphia. Frame, 2 stories, 24x39 feet, shingle roof, pine floors. Contract awarded to Thomas E. Andress, 848 Friendship street, Philadelphia.

Residence (add. and alt.), 319 South Smedley street, Philadelphia, $4,690. Architect, private plans. Owner, John M. Hamilton, on premises. Brick, 1 story add., 7 feet 7 inches x 9 feet 6 inches, general alterations. Contract awarded to George P. Clayton, 1817 North Twentieth street, Philadelphia.

Green House, 5846 Woodbine avenue, Philadelphia, $2,300. Architect, private plans. Owner, M. W. Doan, 5846 Woodbine avenue, Philadelphia. Stone and glass, 1 story, 14x24 feet. Contract awarded to M. W. Young, 2037 North Sixty-third street, Philadelphia.

Store (add.), Northeast Corner Sixth and Hunting Park avenue, Philadelphia, $2,000. Architect, private plans. Owner, John Holdon, 4200 North Eighth street, Philadelphia. Brick, 1 story add., 13x15 feet 10 inches. Contract awarded to John T. Clasby, Ninth and Boulevard, Philadelphia.

Sub-Station, Oregon avenue, East of Broad street, Philadelphia, $12,750. Owners, Sesqui-Centennial Committee, 531 Chestnut street, Philadelphia. Brick, 1 story, 33 feet 8 inches x 53 feet 8 inches. Contract awarded to Conneen Const. Co., 2313 Walnut street, Philadelphia.

Residence, 101 West Hampton road, Philadelphia. Architect, private plans. Owner, George Horn, on premises. Stone, 2 stories, 34x20 feet, 24x26 feet, slate roof, hardwood and pine floors, electric light. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Building (repairs), 62 West Chelten avenue, Philadelphia, $2,750. Architect, private plans. Owner, J. E. Weiss, 3615 North Broad street, Philadelphia. General fire repairs. Contract awarded to David Sloan, 4763 North Eighth street, Philadelphia.

Garage, Northwest Corner Twenty-sixth and Fletcher streets, Philadelphia, $6,000. Architect, private plans. Owner, James J. Kelly, 2715 Sedgley avenue, Philadelphia. Brick, 1 story, 36x55 feet, slag roof, cement floors. Contract awarded to J. J. Voight, 1302 Butler street, Philadelphia.

Store and Residence (add.), Northeast Corner Sixty-first and Thompson streets, $3,000. Architect, private plans. Owner, Charles J. Pascoe, Sixty-first and Thompson streets, Philadelphia. Brick, second story add., 14x20 feet. Contract awarded to J. H. Patterson, 6209 Girard avenue, Philadelphia.

Store and Residence (alts.), 713 Sansom street, Philadelphia, $2,500. Owner, M. Goldberg, on premises. General alterations. Contract awarded to I. Marin, 522 Berks street, Philadelphi.a

Residence (alts. and add.), Northwest Corner Darien and Somerset streets, $2,000. Architect, private plans. Owner, Martin O. Welsch, on premises. Brick, 2 stories add., 14x9 feet, general alterations. Contract awarded to Charles Grindle, 322 Wellins avenue, Philadelphia.

Residences (68), Sixty-eighth and Guyer's avenue, Philadelphia, $288,000. Architect, private plans. Owner, Timothy Gallagher, Fifty-fifth and Springfield avenue, Philadelphia. Brick, 2 stories, (4) 18x32 feet, (64) 16x31 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded

BUILDERS

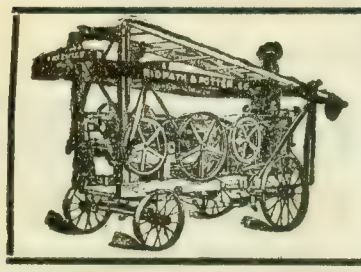
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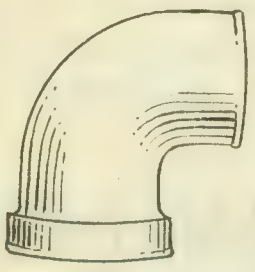
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Residence, Southeast Corner Eva and Urania streets, Philadelphia, $10,000. Architect, private plans. Owner, Joseph Ward, Thirty-sixth and Sunnyside avenue, Philadelphia. Brick, 2 stories, 25x43 feet, hardwood and pine floors, electric work. Contract awarded to Henry C. Missimer, 8012 Ridge avenue, Philadelphia.

Garages (20), South side Tusculum street, East of A street, $3,000 total. Architect, private plans. Owner, Frank Delachlegal, 2914 Fairhill street, Philadelphia. Iron on iron, 1 story, 16x8 feet. Contract awarded to James R. Roy, 2950 North Second street, Philadelphia.

Residences (alts.), West side Wissahickon avenue, North of School Lane. Architect, private plans. Owner, E. H. Brown, Jr., Wissahickon avenue and Price street, Philadelphia. General alterations. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Residence and Store (add. and alts.), 3721 Spruce street, $5,000. Architect, private plans. Owner, Aristea Zanniki, 103 South Thirty-third street, Philadelphia. Brick, 3 stories add., 16x19 feet, general alterations. Contract awarded to S. M. Haig, 103 South Thirty-third street, Philadelphia.

Factory (alts.), 609-15 South Howan street, Philadelphia, $2,250. Owners, Franklin Cushion Co., 325 Fairmount avenue, Philadelphia. General alterations. Contract awarded to J. H. Eddleman, 3030 Frankford avenue, Philadelphia.

Theatre, Broad and Pattison avenue, Philadelphia, $18,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, American Telephone & Telegraph Co., Bourse Building, Philadelphia. Frame, 1 story and balcony, 34x77 feet, composition roof, pine floors, electric light. Contract awarded John N. Gill Const. Co., City Center Building, Philadelphia.

Residences (2), North side Woodbine avenue, West of Fifty-first street, $30,000. Architect, private plans. Owner, H. Schotz, 1324 Walnut street, Philadelphia. Stone, 3 stories, 42x33 feet, 27x4 feet, slate roof, hardwood and pine floors, electric light. Garages (2), brick, 1 story, 20x20 feet. Contract awarded to Joseph E. O'Neill, 932 Fisher's lane, Philadelphia.

Bottling Plant, 120-22 Cotton street, Philadelphia, $12,000. Architect, private plans. Owner, August Jaworowski, 113 Cotton street, Philadelphia. Brick, 2 stories, 31x74 feet 6 inches, electric light, slag roof. Contract awarded to Elmer Cuthbertson, 334 Roxborough street.

Store and Residence (add. and alts.), 2428 South Broad street, $9,400. Architect, private plans. Owner, Charles Horton, 2504 South Broad street, Philadelphia. Brick, 2 stories add., 15x16 feet, hot water heat, general alterations. Contract awarded to William Cornelius, 1723 Snyder avenue, Philadelphia.

Residence, West side Seventy-ninth street, South of Suffolk street, Philadelphia, $6,300. Architect, private plans. Owner, Charles Bulski, Eightieth and Eastwick avenue, Philadelphia. Brick, 2 stories, 16x44 feet, 16x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to John Rae, 7834 Botanic street, Philadelphia.

Residences (2), 512-14 Morris street, Philadelphia, $6,250 each. Architect, private plans. Owner, A. Gillen, on premises. Brick, 3 stories, 16x30 feet, 13x27 feet, slag roof, hardwood and pine floors, electric light. Contract awarded to Charles Schnitzer, 4502 York road, Philadelphia.

Residence, South side Emerson avenue, West of Castor road, $5,500. Architect, private plans. Owner, W. Lumpp, 3036 East York street, Philadelphia. Frame, 2 stories, 26x32 feet, shingle roof, hardwood and pine floors, electric light. Contract awarded to H. Goepel, 5619 North Third street, Philadelphia.

Miscellaneous Work, Sesqui Grounds, Philadelphia. Owners, Sesqui-Centennial Exposition, Fifth and Chestnut streets, Philadelphia. Contracts awarded: Draining, grading, sodding, etc., Sesqui Grounds and vicinity, Turner Const. Co., 1713 Sansom street, Philadelphia, $702,781. Lighting equipment for buildings and grounds, W. V. Pangborne, 1927 West Montgomery avenue, $182,968. Furnishing and equipment for buildings, A. Pomerantz, 1525 Chestnut street, Philadelphia, $19,337.

Pennsylvania Construction News

Post Office (alts. and add.), Chester, Pa. Architect, James A. Wetmore, Washington, D. C. Owners, United States Government, Post Office Custodian, Chester, Pa. Concrete, brick, granite, steel, stucco, 1 story, 30x26 feet, tin roof, cement floors, painting, sheet metal work, carpentry and mill work, steam heat, electric light. Owners taking bids due April 13th.

Country Club, Fitzwatertown, Pa. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Lulu Temple Country Club, on premises. Ready for bids.

Equipment, Haverford, Pa. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owners, School Board of Haverford Township, Haverford, Pa. Cafeteria equipment and refrigeration. Owners taking bids due April 6th.

Hotel, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa., and William Macy Stanton, 1524 Chestnut street, Philadelphia. Owners, names withheld. Fireproof, 16 stories, 100x100 feet, built-up roof, composition and maple floors, hollow tile, elevators, roof ventilators, waterproofing and dampproofing, iron work, iron stairs, tile and marble, metal lath, steam heat, electric light. Plans in progress.

Residence, York, Pa. Architects, Whitman & Royer, 46 East Market street, York, Pa. Owner, Elmer Fry, care of architects. Brick, 2½ stories, 20x37 feet, slate roof, hardwood floors, tile work, electric light. Plans in progress.

Manufacturing Building, York, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, Manufacturers' Association of York, R. Gephart, 15 West Market street, York, Pa. Fireproof, 3 stories, 66x55 feet, tile roof, hardwood floors, hollow tile, elevators, safety treads, ornamental iron, iron stairs, tile, marble and terrazzo work, metal lath, steam heat, electric light. Revised plans in progress.

Station, Wernersville, Pa. Architect, S. T. Wagner, Twelfth and Market streets, Philadelphia. Owners, Philadelphia & Reading Railroad, Twelfth and Market streets, Philadelphia. Brick, steel, 1 story. Preliminary plans in progress.

School, Fort Washington, Pa. Architect, Watson K. Phillips, 213 South Fifth street, Philadelphia. Owners, School Board of Upper Dublin Township, William Worman, superintendent. Work contemplated in two years.

Office Building (alts.), Front and South streets, Media, Pa. Architect, E. L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Phil Green, 4018 Girard avenue, Phil-

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adelphia. Cast stone, marble front, 4 stories, 50x70 feet; rubber tile, pine and composition floors, elevator, steam heat, oil burning equipment, electric light. Owner is taking subbids.

Church, Warren, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Evangelical Church, Rev. C. W. Winch, Warren, Pa. Stone. Owners ready for bids.

Grade School (add.), Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Reading School Board, Oscar B. Heim, secretary, Reading, Pa. Fireproof, 2 stories and basement, 75x50 feet, 50x100 feet, built-up roof, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing (heating and plumbing separate), metal lath, tile and marble, skylights, kalamein doors. Owners will be ready for bids April 15th, due three weeks later.

School (add.), Fourth and Franklin streets, West Reading, Pa. Architects, Scholl & Richardson, 510 Walnut streets, Reading, Pa. Owners, West Reading School Board, Elmer Wenrich, 545 Chestnut street, West Reading, Pa. Brick, terra cotta, 3 stories, 40x70 feet, composition roof, heating extension. Owners will be ready for bids in two weeks.

Residence, Mount Joy, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, Elmer E. Brown, Mount Joy, Pa. Brick, 2½ stories, 32x32 feet, slate roof, maple floors, oil burner, electric light, tile work. Owner ready for bids.

Residence Development, Ardmore and Cricket avenue, West of County Line road, Ardmore, Pa. Architect, private plans. Owners, John H. Oler & Son, 5116 Market street, Philadelphia. Stucco, cinder block, frame, stone, hollow tile, various sizes and types, slate and shingle and tile roof, hardwood floors, hot water heat, electric light. Number undetermined. Too early for details. Owners will start work in about two months.

Office, York, Pa. Architect, E. D. Leber, Hay Building, York, Pa. Owners, York Body Corporation, care of architect. Steel, brick, mill construction, 2 stories and basement, 70x100 feet, composition roof, rubber tile floors, heating extension, electric light, metal lath, steel sash. Owners ready for bids.

Residence (add.) and New Garage, Strafford, Pa. Architect, J. L. Conarroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Stone, stucco, hollow tile, 1 story, 23x30 feet, garage, hollow tile, stucco, 1 story, 24x20 feet, gas hot water heat, slag and shingle roof, hardwood and cement floors, cabinet work, electric alterations. Plans in progress. Architect will be ready for bids in 10 days.

Masonic Temple, Pottstown, Pa. Architect, A. S. Kepner, 121 North Hanover street, Pottstown, Pa. Owners, Masonic Temple Association, Stichter Lodge, No. 254, Pottstown. Brick, limestone, 2 and 3 stories and basement, 60x90 feet. Plans in progress. Architect will be ready for bids about June 1st.

Church and Sunday School (alts. and add.), Camp Hill, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Trinity Lutheran Church, Carl Dean, chairman, Building Committee, Camp Hill, Pa. Brick, stone, 1 story and basement, 48x80 feet, composition roof, hardwood floors, heating extension, electric light. Architect ready for bids.

Chapel, West Fairview, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, care of Rt. Rev. P. R. McDevitt, 111 State street, Harrisburg. Timber, 1 story, 40x80 feet, shingle roof, pine floors, steam heat, electric light. Architect ready for bids.

Moose Temple, Bradford, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Loyal Order of Moose, E. M. Bitner, chairman, Bradford, Pa. Brick, stone, steel, 3 stories, 73x85 feet, quarry tile and Carey roof, maple, pine and oak floors, hollow tile, rubber tile, safety treads, roof ventilators, waterproofing, steam heat, electric light, tile and marble, metal lath, skylights, kalamein doors, iron stairs, ornamental ironwork. Architects ready for bids.

Publishing House and Apartment, Jersey Shore, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Jersey Shore Herald Co., Dr. L. Goodman, Jersey Shore, Pa. Brick, steel, 3 stories and basement, 48x84 feet, Barrett roof, hardwood floors, roof ventilators, steam heat, electric light, tile work, skylights, area gratings. Architects ready for bids.

Pavilion and Gymnasium, Topton, Pa. Architects, Scholl & Richardson, 510 Walnut street, Reading, Pa. Owners, Topton Lutheran Orphanage, Rev. J. O. Henry, Topton, Pa. Steel, frame, concrete block, 1 story, 130x200 feet, asbestos shingle roof, pine and cement floors, hot air heat, electric light. Owners ready for bids.

Bank, Huntingdon, Pa. Architects, Hopkins & Dentz, 415 Lexington avenue, New York City. Owners, First National Bank, H. W. Kock, chairman, Building Committee, Huntingdon, Pa. Brick, limestone, steel, granite, 1 story, basement and mezzanine, 115x50 feet, composition roof, cement floors, plumbing, metal window guards, shoring, waterproofing, dampproofing, ornamental iron work, steam heat, electric light, metal lath, tile and marble work, kalamein doors, ornamental iron work, acoustical treatment, area gratings, imitation travertine. Owners taking bids due April 6th.

Church, Sunday School and Parsonage, Scranton, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Peter's Lutheran Church, Rev. Bernard Bohrer, Scranton. Stone, steel, 1 story and basement, 41x140 feet, 50x32 feet, slate roof,hardwood floors, hollow tile, waterproofing, ornamental iron, tile work, vapor heat, electric light. Owners taking bids due April 9th.

School, Littlestown, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, St. Aloysius' Roman Catholic Church, Rev. E. O'Flynn, Littlestown. Brick, steel, 2 stories, 70x120 feet, built-up roof, maple floors, hollow tile, steam heat, electric light, metal lath, iron stairs. Architect taking bids due April 7th.

Gymnasium, Ridley Park, Pa. Owners, Board of Education, Ridley Park, Henry M. Davis, secretary, Tome Street School, Ridley Park, Pa. Concrete block, brick, steel, 68x102 feet, will contain dressing rooms, stage, etc., surety bond or certified check 5 per cent. of bid. Owners taking bids due April 9th, 7 P. M. (Eastern Standard Time).

Motoramp Garage, 28-34 North Fifth street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Central Motoramp Garage Co., on premises. Reinforced concrete, brick, steel, 4 stories and basement, 80x140 feet, slag roof (plumbing, heating, electric, sprinklers reserved), cement floors, hollow tile, elevators, safety treads, metal ceilings, shoring, waterproofing, ornamental iron work, bond, kalamein doors, rolled steel sash and skylights, tile work, metal lath, architectural cast cement stone, rubber tile floors, linoleum floors. Architects taking bids due April 10th.

Convent, Wissinoming, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Bartholomew's, Rev. I. J. Scanlon, on premises. Stone, brick, 3 stories and basement, cut stone, concrete, steel, limestone, brick, 122x41 feet (plumbing, electric, marble and tile and laundry equipment reserved), slate roof, slag roof, oak and cement floors, metal weather stripping, integral waterproofing, ornamental iron work, iron stairs, bond, kalamein and hollow metal doors, metal lath, dumb waiters, laundry chute, incinerator. Architects taking revised bids.

Residence, York, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, Louis J. Appell, 34 North Duke street, York, Pa. Brick, stone trim, 2 stories, 34x54 feet, tile roof, hardwood floors, vapor heat, electric light, tile work. Architects taking bids due April 8th.

School, West Shamokin, Pa. Architect, Fred Schwartz, Woolworth Building, New York. Owners, St. Stephen's Polish Roman Catholic Church, Rev. G. Zablenski, West Shamokin, Pa. Brick, cast stone, 3 stories and basement, 136x71 feet, slag roof, cement, pine floors, electric light, metal lath, tile, marble and terrazzo work, rolled steel sash, roof ventilators, metal ceilings, iron stairs, ornamental iron work, slate treads, bluestone, area gratings. Owners taking bids.

Hospital, Lansdowne avenue and Garrett road, Upper Darby, Pa. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Delaware County Hospital, Building Committee, Delaware County Headquarters, Ashby and Coply roads, Stonehurst, Pa. Brick, cut stone, reinforced concrete, steel, 4 stories, 110x48 feet, slag roof, composition and cement floors, hollow tile, safety treads, roof ventilators, metal weather strip, Karnak waterproofing, ornamental terra cotta, ornamental iron work, floor hardener, bond, tin clad, kalamein and hollow metal, steel doors, copper skylights, rolled steel sash, tile and marble work, metal lath. Owners taking bids due April 7th, 8 P. M. (Equipment due same day) Steel partitions, caulking, painting adn glazing, granite, caststone, leaded insulation. Deposit, $20, refunded.

Post Office (alts. and add.), Chester, Pa. Architect, James A. Wetmore, Supervising Architect, Washington, D. C. Owners, Treasury Department, Washington, D. C. Owners taking bids due April 13th. Plans may be obtained from Custodian, Chester, Pa., or at Washington, D. C.

School, Aldan, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, School Board of Aldan, A. L. Rehner, Aldan, Pa. Brick, steel, 1 story, 143x116 feet (plumbing, heating, electric separate), slag roof, ornamental iron work, maple floors. Low bidders: N. W. Bryan, 10 South Eighteenth street, Philadelphia, $69,975; Hood & Gross, 1535 Chestnut street, Philadelphia, $70,680.

Road Work, Pennsylvania. Owners, Department of Highways of Pennsylvania, Harrisburg, Pa. Low bidders on road work opened March 23rd.

Westmoreland County, R-118, A-4034, S-5, Madison Borough, Sewickly and Hempfield Townships. One course reinforced concrete. W. H. Nicely Const. Co., Ligonier, Pa., $39,-819.58.

Bucks County, A-3441-3670, Bristol Township and Borough. One course reinforced concrete. Union Paving Co., Thirtieth and Locust streets, Philadelphia, $93,105.11.

Dauphin County, A-3855, East Hanover Township. One course reinforced concrete. Swanger & White, Lebanon, Pa., $100,844.

Monroe County, A-3759-60, Pocono and Jackson Townships. Broken stone base course. Lane Const. Corp., Meriden, Conn., $95,994.40.

Lebanon County, A-3582, Bethel Township. One course reinforced concrete. Davis & Andrew, Altoona, Pa., $34,812.74.

Clearfield-Center Counties, R-219, S-3, Cooper and Snow Shoe Township. Grading and drainage. Edwards-Dunn Co., Inc., Greensburg, Pa., $116,747.19.

York County, R-491, A-3543, West Manchester and North Codorus, New Salem and Seven Valleys Townships. One course rein-

forced concrete. W. Grant Raub Co., Red Lion, Pa., $227,554.98.

Allegheny and Beaver Counties, R-538, S-1, Findley, Independence and Hanover Townships. J. Lee Plummer, Inc., Johnstown, Pa., $425,998.09.

Chester County, A-3001, 3825, Sadsbury and Valley Townships. One course reinforced concrete. George I. Thompson, Clearfield, Pa., $143,350.24.

Bedford County, R-356, A-2816-3363, Londonderry Township. One course reinforced concrete. Charles Winters Const. Co., Butler, Pa., $227,496.23.

Fayette County, A-3655-57, Tyrone Township. One course reinforced concrete. Pratt & Moore, Hollidaysburg, Pa., $127,283.72.

Adams County, R-44, A-3933, Gettysburg Borough, 2,950 feet. One course reinforced concrete. W. Grant Raub, Red Lion, Pa., $19,338.01.

Beaver County, R-3642, Harmony Township, 9,136 feet. One course reinforced concrete. D. W. Challis & Sons, Inc., Sewickley, Pa., $67,809.79.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Owners taking bids due April 6th. Certified check required.

Berks County, R-197, A-3372, Sec. 2, Oley, Exeter, Upper and Lower Alsace Townships, 25,110 feet. One course reinforced concrete. Certified check, $4,000.

Crawford County, R-447, A-3819, Sadsbury and Summit Townships, 11,525 feet. Either bituminous wearing surface on concrete base or one course reinforced concrete. Certified check, $2,500.

Cameron and Clinton Counties, R-105, Sec. 4-6, Grove and East Keating Townships, 51,725 feet. Grading and drainage. Certified check, $4,000.

Indiana County, R-337, A-3700-3915, Brush Valley and East Wheatfield Townships, 21,872 feet. One course reinforced concrete. Certified check, $2,500.

Northumberland County, R-169, Sec. 3, Ralpho and Shamokin Townships, 13,389 feet. One course reinforced concrete. Certified check, $2,500.

Monroe County, R-169, A-3417, Stroud and Pocono Townships, 15,850 feet. One course reinforced concrete. Certified check, $2,500.

Schuylkill County, R-161, Sec. 2, Frackville and Gilberton Boroughs, West Mahanoy Township, 8,518 feet. One course reinforced concrete pavement and hillside vitrified pavement. Certified check, $2,000.

Tioga County, R-106, A-3964, Wellsboro Borough, 3,370 feet. One course reinforced concrete. Certified check, $1,500.

Warren County, R-279, A-3953-1760-1761, Sugar Grove Township, Sugar Grove Borough, 11,809 feet. Either bituminous wearing surface on concrete base or one course reinforced concrete. Certified check, $2,500.

York County, R-230, 411, A-3544, Penn and Manheim Townships, 25,668 feet. One course reinforced concrete. Certified check, $3,500.

Owners taking bids due April 7th on following:

Berks County, A-3587, Heidelberg, North Heidelberg, Jefferson and Penn Townships, Robesonia and Bernville Boroughs. Grading and drainage. Certified check, $4,000.

Butler County, R-75, A-3872, Center Township, 8,907 feet. One course reinforced concrete. Certified check, $2,500.

Fayette County, R-366, A-3059-3662, Sec. 3 and 4, Springfield Township, 23,800 feet. One course reinforced concrete. Certified check, $4.000.

Lackawanna County, R-322, A-924-4044, Archbald Borough, 12,374 feet. One course reinforced concrete. Certified check, $2,500.

Lebanon County, R-140, A-3722, Swatara and Bethal Townships, 16,380 feet. One course reinforced concrete. Certified check, $3,500.

Montgomery County, R-151, Cheltenham Township, 3,642 feet. One course reinforced concrete. Certified check, $1,500.

Montour County, R-182-240, A-3765, Danville Borough, 3,640 feet. One course reinforced concrete. Certified check, $1,500.

Susquehanna County, R-296, A-3651, Forest City Borough, 2,484 feet. One course reinforced concrete. Certified check, $1,500.

Tioga County, R--478, A-3963, Westfield Borough, 3,014 feet. One course reinforced concrete. Certified check, $1,500.

York County, R-3940, East Hopewell Township, 4,676 feet. One course reinforced concrete. Certified check, $1,500.

Pennsylvania Contracts Awarded

School, West Pittston, Pa. Architects, Mack, Sahm & Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owners, West Pittston School District, Paul Bowen, West Pittston, Pa. Brick, stone, steel, 2 stories and basement, 60x250 feet, built-up roof, maple floors, safety treads, roof ventilators, metal weather strip, waterproofing and dampproofing, iron stairs, bond, fire doors, steel skylights, tile work (heating, plumbing and electric separate). Contract awarded to Herman Mailander, Wilkes-Barre, $231,000. Plumbing, J. J. Cawley, Wilkes-Barre, $10,500. Electric, Murphy Electric Co., Wilkes-Barre, $6,500. Heating and ventilating not yet awarded.

Store and Apartment Building, York road, above West avenue, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Dr. E. T. Quinn, West and Cedar avenues, Jenkintown, Pa. Brick, reinforced concrete, cut stone, steel, 3 stories and basement, 77x79 feet, Hoffman controlled heat, electric light, tile and marble work, metal lath, oak and pine floors, tin roof, plumbing, roof ventilators, shoring, dampproofing, ornamental iron work, bond, tin lined and hollow metal doors, hollow metal sash, galvanized iron skylights, sidewalk elevators, incinerator, bronze work. Contract awarded E. Allen Reeves, Abington, Pa.

Printing Building, Conshohocken, Pa. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Conshohocken Recorder, on premises. Brick, cut stone, steel, 1 story and basement, 83x85 feet, slag roof, cement floors, electric light, metal lath, tile and marble work, rolled steel sash, bond, floor hardener, ornamental iron work, waterproofing, painting. Contract awarded Oscar C. Fries, Conshohocken, Pa.

Lodge Building, Williamsport, Pa. Architect, F. Arthur Rianhard, Masonic Temple, Williamsport, Pa. Owners, B. P. O. E., No. 173, Williamsport, Pa. Brick, steel, concrete, stone, 4 stories, 60x90 feet, rear 1 story, 90x110 feet, built-up roof, hollow tile or cinder block, safety treads, waterproofing and dampproofing, ornamental iron, iron stairs, fire doors. Contract awarded to Jacob Gehron Co., Williamsport, Pa.

Apartment House, Strafford and Lansdowne avenues, Lansdowne, Pa. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, George Weiss, care of builder. Brick, 3 stories, 110x160 feet, slag roof, hardwood and rubber tile floors, vapor heat, oil burning equipment, electric light, tile and marble work, plumbing. Contract awarded J. F. Roystone, 705 East Girard avenue, Philadelphia, who is taking sub-bids. Work started.

Residence, York, Pa. Architect, E. D. Leber, Hay Building, York, Pa. Owner, A. F. Fox, 807 South George street, York, Pa. Stone, 2½ stories, 47x32 feet, slate roof, hardwood floors, tile work, electric light. Contract awarded to I. Riandollar & Son, York, Pa.

Moving Picture Theatre, Red Lion, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owner, W. J. Rothensies, Red Lion, Pa. Brick, steel, concrete, 1 story, 60x154 feet, slag roof, concrete and composition floors, hollow tile, roof ventilators, waterproofing and dampproofing, architectural terra cotta, ornamental iron work, fire doors, steel sash, metal lath, vapor heat, electric light. Contract awarded to W. Thompson, Red Lion, Pa.

Pickering Creek Filter and Pumping Station, near Phoenixville, Pa., $75,000. Architect, private plans. Owners, Philadelphia Suburban Water Co., Mr. C. E. Davis, general manager, 1612 Market street, Philadelphia. Brick, steel, concrete, cut stone, 1 story, 69x67 feet, gypsum slag roof, cement floors, bond. Contract awarded U. G. I. Contg. Co., Broad and Arch streets, Philadelphia.

Nurses' Home, Pottstown, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Pottstown Hospital, Pottstown, Pa. Brick, steel, 2 stories and basement, 100x30 feet, composition built-up roof, maple floors, limestone, steam heat, electric light, tile work, plumbing. Contract awarded to F. H. Keiser, Pottstown, Pa. Plumbing and heating, Charles Hinchman, Pottstown, Pa. Electric, R. Miller, Pottstown, Pa.

Bungalow, Richboro, Pa. Architect, Harry Parker, 1120 Locust street, Philadelphia. Owners, Cameron & Elizabeth Spencer, Richboro, Pa. Stone, 1 story, 42x35 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded John K. La Rue, Wrightstown, Pa.

Residence and Garage, Wyndmoor, Pa. Architect, J. W. Keyes, 1520 Locust street, Philadelphia. Owner, H. B. Price, Wyndmoor, Pa. Stone, 2½ stories and basement, 25x50 feet, garage, 20x20 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded Samuel Harting & Son, 20 East Johnson street, Philadelphia.

Dam, Phoenixville, Pa. Architect, private plans. Owners, Philadelphia Suburban Water Co., C. E. Davis, general manager, 1612 Market street, Philadelphia. Concrete. Contract awarded Ambursen Const. Co., Grand Central Terminal Building, New York.

New Jersey Construction News

Schools (2), Westville Grove and Jericho, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Depford School Board, Westville, N. J. Low bidders: Westville Grove—Brick, 1 story and basement, 4 rooms, slate roof, pine floors (heating, plumbing and electric separate); Barnes Const. Co., 1828 Arch street, Philadelphia, $36,500; plumbing, Harry Knecht, Collingswood, N. J., $1,530; heating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $3,594; electric, Franks & Sweeney, Camden, N. J., $745. Low bidders: Jericho—Brick, steel, 1 story and basement, 2 rooms, slag roof, pine floors (heating, plumbing and electric separate); Barnes Const. Co., 1828 Arch street, Philadelphia, $15,900; heating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $3,249; electric, R. C. McMann, care of owner, $397.

Warehouse, 1300 Pine street, Camden, N. J. Architect, not selected. Owners, South Jersey Warehouse Co., William Romal, Jr., Thirteenth and Pine streets, Camden, N. J. Reinforced concrete, brick, 4 stories and basement, 150x100 feet, slag roof, cement floors, ornamental iron work, steel sash. Work contemplated.

Church and School, Merchantville, N. J., $100,000. Architect, not yet selected. Owners, St. Peter's Roman Catholic Church, Rev. J. B. Conway, Merchantville, N. J. Work contemplated.

School, Salem, N. J., $100,000. Owners, St. Mary's Roman Catholic Church, Rev. T. F. Hennessey, Salem, N. J. Work contemplated.

Hotel (alts. and add.), Ocean City, N. J. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Raising entire building and putting in an additional new first floor, brick, 40x80 feet, slag roof, plumbing, heating, lighting, painting, glazing, plastering, general alterations. Plans in progress.

Store and Apartment, 633 South Warren street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Hyman Levie, 633 South Warren street, Trenton, N. J. Brick, steel, 2 stories, 22x80 feet, slate roof, pine floors, hot water heat, electric light, tile work, plate glass, copper work. Plans in progress.

Service Station and Garage, Hamilton Township, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, S. Feinstein, care of architect. Brick, steel, 1 story, 54x150 feet, slag and tile roof, concrete floors, hollow tile, steam heat, electric light, metal lath, steel sash, fire doors. Plans in progress.

Public Comfort Station, Farm No. 2, Cinnaminson, N. J. Architect, Watson K. Phillips, 213 South Fifth street, Philadelphia. Owners, Campbell Soup Co., Camden, N. J. Brick, 1 story, 30x30 feet, asphalt shingle roof, cement floors, plumbing, septic tanks. Architect taking bids due April 2nd.

Service Station, River Road and Eighteenth street, Camden, N. J. Architect, Harold A. Allen, 526 Stevens street, Camden, N. J. Owner, B. Koons, care of architect. Brick, oriental stucco, one story, 18r24 feet, metal, Spanish tile roof, cement and wood floors, plumbing, electric light (heating reserved). Architect taking bids, due April 2nd.

Store Frant (alts. and add.), Hamilton St., Trenton, N. J. Architect, L. A. Kaplan, Fitlcharles Building, Trenton, N. J. Owner, Irving Habas, 1230 Hamilton street, Trenton, N. J. Brick, general alterations, plate glass. Architect ready for bids.

Professional Building, Elizabeth, N. J. Architevt, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owner, Mrs. Mary N. Martin, care of architect. Brick, steel, reinforced concrete, five stories, L shape, 150x30x50 feet, built-up roof, cement floors, steam heat, electric light, tile and marble work. Owner taking bids from local contractors.

Storage Vaults (alts.), State House, Trenton, N. J. Architect, Alen B. Mills, Division of Architecture and Construction, Trenton, N. J. Owners, State of New Jersey, Department of Institutions and Agencies, Trenton, N. J. General alterations to storage vaults, East Wing, State House. Owners taking bids, due Aprail 12th at 1.30 P. M.

Fire Apparatus Building and Men's Quarters, Lakeland, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Board of Chosen Freeholders, Court House, Camden, N. J. (a) Building for Fire Apparatus and Men's Quarters, 47,000 cubic feet. (b) House for Chief Engineer, general construction, fire apparatus, plumbing and heating, concrete road from Asyla Road to central plant. Deposit, $15.00 (refunded for return of plans on or before due date). Certiled check 10%. Owners taking bids, due April 7th at 10 A. M.

Residences and Garages (8), 1254-56-60-62-66-68-72-74 Magnolia avenue, Camden, N. J., $38,400. Owners, Pal & Plas Co., Inc., 1540 Mt. Ephraim avenue, Camden, N. J. Brick, two stories, 16x50 feet, slag roof, pine and cement floors, hot water heat, electric light. Garages 9x18 feet. Permit granted.

Residences and Garages (6), 1318-20-24-26-30-32 Van Hook street, Camden, N. J., $18,000. Owners, Pal & Plas Co., Inc., 1540 Mount Ephraim avenue, Camden, N. J. Brick, two stories, 14x50 feet, slag roof, pine and cement floors, hot water heat, electric light. Permit granted.

Residences (2), 1107-09 North Twenty-eighth street, Camden, N. J., $9,000. Architect, private plans. Owner, Charles Schaal, 2707 Cleveland avenue, Camden, N. J. Frame, two stories, 16x38 feet 7 inches, slag roof, pine floors, ppeless heat, electric light. Permit granted.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Secretary, Broad Street Bank Buildng, Trenton, N. J.

Camden County, Route 2, Sec. 9, Pensauken Creek to Union School House Road. Ecavation, rebuilt macadam shoulders, double line reinforced concrete pavement.

Bergen County Rute 17, Sec. 1., Hackensack to Rutherfrd. Grading, earth excavation, dith excavation, borrow exvacation.

Owners taking bids, due April 12th at noon. Deposit of $10 required. Certified check 10% required. Bond.

Highway Maintenance Materials, New Jersey. Owners, State of New Jersey, State Highway Commission, A. Lee Grover, Secretary, ninth floor, Broad Street Bank Building, Trenton, N. J.

Crushed trap rock, limestone, dolomite or gneiss, washed gravel or stone, concrete size crushed stone or gravel, crushed slag, dustless screenings.

Bituminous concrete, Type FA-BC-1, or A, sheet asphalt, type SA, for repair and maintenance of bituminous concrete and sheet asphalt.

Asphalt cement emulsion, Grade AE, in containers for cold patching, in an approximate quantity of 29,400 gallons.

Asphalt cement, Grade OA-4, in containers, for pouring joints, in an approximate quantity of 48,850 gallons.

Materials for surface treatment and penetration work, tar, asphalt, lignin binder.

Specifications, form of bid, special addressed envelope, conditions under which bids will be accepted may be obtained upon request from A. W. Muid, Superintendent of Maintenance, Room 8220 Broad Street Bank Building, Trenton, N. J. Certified check 10% required.

Owners taking bids, due April 12th, 1926, at noon at ninth floor, Broad Street Bank Building, Trenton, N. J.

New Jersey Contracts Awarded

Schools (3), Clementon, Somerdale, Garden Lake, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, Clementon Township School Board, G. W. Mayberry, Laurel Springs, N. J. Contracts awarded Somerdale School. Brick, reinforced concrete, one story, 41x61 feet, slag roof maple and cement floors, carpentry and mill work, safety treads, roof ventilators, ornamental iron work (plumbing, heating and electric work separate). Bennett McLaughlin, 3260 Ludlow street, Philadelphia, $27,300. Heating, Mechanical Equipment Co., 214 S. Twelfth street, Philadelphia, $3,945. Plumbing, Charles Leopold, Clementon, N. J., $845. Electric, Merit Electric Co., 630 Race street, Philadelphia, $900.

Contracts awarded Clementon Heights School. Brick, reinforced concrete, cut stone, two stories, 61x30 feet, slag roof, kalamein doors, bond, floor hardener, ornamental iron work, metal lath, stone, bid bond (heating, plumbing, electric separate). Fred Lange, Audubon, N. J., $32,925. Heating, American Heating & Ventilating Co., 1505 Race street, Philadelphia, $4,870. Plumbing, Charles Leopold, Clementon, N. J., $1,672. Electric, Franks & Sweeney, Camden, N. J., $1,175.

Contract awarded Garden Lake School. Brick, imitation stone, reinforced concrete, bid bond,, two stories and basement, 61x36 feet, safety treads, painting and glazing, shoring, metal lath kalamein doors ornamental iron work cast stone (heating, plumbing, lightin separate). Fred Lange, Audubon, N. J., $32,760. Heating, American Heating & Ventilating Co., 1505 Race street, Philadelphia, $3,237. Plumbing, Charles Leopold, Clementon, N. J., $1,374. Electric, Merit Electric Co., 630 Race street, Philadelphia, $990.

Store and Apartment (alts. and add.), 927 East State street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, H. Sackin, 863 Quinton street, Trenton, N. J. Brick, stone, three stories, 25x90 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile work, fire doors. Contract awarded to N. Milgaten, 53 Spring street Trenton, N. J.

Bank, Merchantville, N. J., $100,000. Architect, J. C. Jefferis, 312 Market street, Camden, N. J. Owners, Merchantville Trust Co., care of architect. Steel, concrete, one and two stories, 67x61 feet, slag roof, marble and hardwood floors, steam heat, electric light, tile and marble work. Contract awarded to J. W. Draper, 436 Haddon avenue, Camden, N. J.

Building, Trenton, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, Mercer Hospital, 446 Bellevue avenue, Trenton, N. J. Fireproof, three stories, 40x96 feet, asbestos built-up roof, concrete floors, hollow tile, elevators, cast stone, steam heat, electric light, metal lath, tile work rolled steel sash. Contract awarded to T. M. Day & Sons, Day Building, Trenton, N. J.

Residence and Store, 3099 Highland avenue, Camden, N. J., $8,100. Architect, Harold A. Allen, 526 Stevens street, Camden, N. J. Owner, Edward Werner, care of architect. Brick, block, two stories, 22x40 feet, slag roof, hot water heat electric light. Contract awarded to Fred L. Eichfeld, 3100 Highland avenue, Pensauken, N J.

Store Front and alts. to Building, 3802 Westfield avenue, Camden, N. J., $5,200. Architect, prvate plans. Owner, L. B. Wollison, 3802 Westfield avenue, Camden, N. J. New store front, enclosing side porth general fire repairs. Contract awarded to George K. Piper, 215 North Forty-third street, Pensauken, N. J.

Residence (add.), 248 Pine street, Camden, N. J., $2,000. Architect, private plans. Owner, L. Bantiveglio, 248 Pine street, Camden, N. J. Brick, two stores, 13x16 feet, slag roof, pine floors. Contract awarded to Frank Valeriani, 259 Spruce street, Camden, N. J.

Residences (2), 949-51 Jackson street, Camden, N. J., $8,000. Architect, private plans. Owners, L. Gdowck & J. Bernarczyk, Camden, N. J. Brick, two stories, 14x50 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Stanley & Adam Wysocki, 1454 South Tenth street, Camden.

Road Work, New Jersey, $242,880. Owners, State Highway Commission, Broad Street Bank Building, Trenton, N. J.

Route 18, Sec. 2, Alpine to New York State Line, Bergen County Contract awarded to F. J. Groves & Sons, 114 Marlton Pike, Camden, N. J.

Miscellaneous Construction News

Armory and Arsenal Building, North Laurel, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owners, State Armory Commission, E. M. Hoopes, North Laurel, Del. Brick, steel, three stories 55x75 feet, three wings 18x30 feet, slag, concrete and slate roof, linoleum, concrete and maple floors, safety treads, metal window guards, water and dampproofing, terra cotta, ornamental iron, iron stairs, bond, hollow metal doors, steel sash, terrazzo work, metal lath (heating, plumbing and electric separate.) Architect taking bids, due April 15th. Bond of 100% of contract price required.

Bank (alts. and add.), Sixth and Market streets, Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Security Trust and Deposit Co., J. Roselle, President, on premises. Brick, steel, stone, fireproof, three stories, 117x56 feet, fireproof roof, linoleum floors, marble floors, hollow tile, metal window guards, cut stone (heating, electric and plumbing reserved), metal lath, tile work, metal sash, hollow metal doors, grills, general alterations to interior. Architects taking bids, due April 5th.

Residences (6), Harrison street, Wilmington, Del., $7,000 each. Owners, W. S. & F. J. Boyce, 910 West Ninth street, Wilmington, Del. Brick, two stories, 21x32 feet, slate roof, pine floors, hot water heat, electric light. Owners will build.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Owners taking bids, due April 14th at 2 P. M. Certified check 10% required. Deposit of $2.00 required.

Contract 58, Bear Station Crossing Elimination, .25 miles. Excavation, borrow, cement, concrete pavement, longitudinal metal joint, concrete, reinforcement.

Contract 59, Wyoming County Farm, 2.60 miles. Clearing, excavation, borrow, broken slag base course, reinforcement, corrugated metal pipe.

Contract 60, Timber Bridge at Collins' Mill. Creosoted timber piling and creosoted timber plankng.

Contract CN32, Ginn's Corner, Middletown, 3.85 miles. Excavation, borrow, broken stone base course, cement concrete pavement, longitudinal metal joint, non-metallic joint, concrete, reinforcement, corrugated metal pipe, R. C. pipe, relaid pipe, pipe underdrain, concrete gutter, wire cable, guard rail, wood shoulder curb, timber piling.

Contract CK31, Rising Sun-Lebanon, 1.25 miles. Excavation, borrow, broken slag base course, cement concrete pavement (slag aggregate), longtudinal metal joint non-metallic center line joint, concrete, reinforcement, corrugated metal pipe, R. C. pipe, wood shoulder curb, east ron gratings.

Bank, Dallastown, Md. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, Dallastown Union State Bank, Mr. Meyers, President, Dallastown, Md. Brick, one and two stories, 20x60 feet, metal window guards, tile and marble, bronze work, vault. Too early for details.

Sunday School, Cumberland, Md. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Luke's Lutheran Church, Rev. H. Hall Shark, Cumberland, Md. Stone, steel, one story, 65x120 feet, tile roof, maple floors, hollow tile, roof ventilators, water and dampproofing, ornamental iron work, steam heat, electric light, metal lath. Owners taking bids, due April 15th.

Residence and Garage and Servants' Cottage, Winston-Salem, N. C. Architects, Charles Barton Keen & Wallace, 338 South Smedley street, Philadelphia. Owner, Dr. Frederick M. Haines, Winston-Salem, N. C. Brick, cut stone, hollow tile, stucco, two stories and basement, two stories, 44x40 feet, wing 35x20 feet, garage 48x21 feet (painting, plumbing, heating, electric, tile, marble, weatherstrips reserved), variegated slate roof, cement, oak and pine floors, hollow tile, metal ceilings, antihydro waterproofing, dampproofing, ornamental iron work, bond, hollow metal sash and skylights, metal lath, metal casements, frames and sash, arca gratings, ornamental plaster. Architect taking bids, due April 19.

School, Sykesville, Md. Architect, B. E. Starr, Spooner Building, Harrisburg, Pa. Owners, Board of Education of Carroll Co., M. S. Unger, Secretary, Westminster, Md. Brick, two stories, 150x70 feet, slag roof, pine floors, tile work, roof ventilators, steam heat, electric light. Owners taking bids.

Miscellaneous Contracts Awarded

Store (add.), Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owners, Miller Bros., Ninth and King streets, Wilmington, Del. Frame and steel, fourth story addition, 40x70 feet, slate and composition roof, pine floors, plaster board walls and ceilings (plumbing, heating and electric reserved). Contract awarded to F. G. Krapf, 421 Orange street, Wilmington, Del.

Residences and Garages (6), Woodlawn avenue, Wilmington, Del., $12,000 each. Architect, private plans. Owners, James J. English Co., 831 Orange street, Wilmington, Del. Stone, brick, two stories, 23x34 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, Contract awarded to S. R. Jackson, 831 Orange street, Wilmington, Del.

Garage (add.), 1205 French street, Wilmington, Del. Owner Matt Finger, on premises. Brick, two stories, 32x100 feet, slag roof, concrete floors, electric work. Contract awarded to D. Cantera, 1911 West Ninth street, Wilmington, Del.

Mr. L. E. Binns, Architect, formerly of 511 West Duncannon Street, Philadelphia, has opened new offices at 119 South Fourth Street, Philadelphia.

Paul Monaghan, Architect, formerly of 1713 Sansom St., Phila., has moved to 1520 Locust Street.

The Turner Construction Company, formerly of 1713 Sansom St., Philadelphia, has moved to Sixth Floor, 1700 Walnut St., Philadelphia.

PLASTER

By Harry Carleton

For years we have been accustomed to seeing the interior walls of our homes covered with paper. Now we are in the midst of an era of interior decorating in which the mirror smooth wall gives way to a rough and rugged surface. In either cases the finish is expensive; it is the greatest expanse that greets the eye; it is the background against which we view furniture and pictures; it is the "skin" of the interior, and while it may not have all the qualities of "a skin you love to touch," it should have all the qualities of a skin you love to see.

And just as scars, blemishes and roughness mar a schoolgirl complexion, so cracks, poor workmanship and wavy walls disfigure plaster surfaces. Thus it is very important that all plastered surfaces be produced with painstaking care. If the base, the ground work, the thing underlying the plaster is poor, the finish coat cannot help but reflect these conditions. Only too often the plaster is blamed for failure when other things are at fault.

The greatest amount of plastering in homes is done over wood lath nailed to stud walls. To secure the best plaster work, it is necessary to make certain that these stud walls are firm and true, and

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SURETY BONDS

that the corners are braced well. A few cross braces placed in stud walls often help strengthen the wall so that when the plaster is applied no under strain is placed upon it.

If wood lath are used they should be clean, straight and free from defects that will cause trouble. They should be nailed on at least one quarter inch apart and the courses should be broken at every seventh lath. Breaking courses every fifth lath is even better, but slightly more expensive. The lath must be well nailed at every bearing point.

The concensus of opinion is that wood lath should be thoroughly wet down before the plaster is applied, the theory being that dry lath absorb moisture from the plaster, thus causing cracks. The writer has heard very able plasterers agree that wetting the lath causes them to swell, and that some of the moisture enters the studs, and as the plaster sets before the lath and studs dry out thoroughly, the clinch or key is broken by such drying, with consequent trouble.

It is safe to say that circumstances govern this condition. In hot, dry weather the lath should be wet in order that they do not pull moisure too rapidly from the plaster. In wet, cold weather it does not seems so important to soak the lath, but if artificial heat is to be used to dry the walls, it would seem that a thorough sprinkling would be essential.

Cheap jobs of plastering are done in so-called two-coat work: that is, a skin coat is applied to the lath, and the second coat immediately applied over it, bringing the plaster out flush with the grounds. When this mass has set, the finish coat is applied, but the first two coats are applied as one operation. When heavy grounds are used, or walls are out of true necessitating a heavy coat of plaster to bring them flush and true, the disadvantage of this method is evident.

Grounds were mentioned in the above paragraph. Usually these are square strips of wood nailed around windows and other openings, though anything that gives the plasterer a line or point to work to may be called a "ground." Only too often in false economy grounds only 5/8 inch thick are used. No first-class job of plastering, particularly over wood lath, can be done using 5/8 inch grounds. 3/4 inch is the minimum size and 7/8 inch or 1 inch is even better.

In a previous paragraph the spacing of the lath was mentioned. If you have ever seen the back of a wood lath plaster partition, you will remember that the plaster is forced through the spacing of the lath and hung down on the backs of the lath. This is the "key," and unless the keys in plaster are thick, heavy and strong the plaster cannot adhere to the wall successfully. There is little or no bond between the saw-roughed lath and the plaster, so look well to the spacing of your lath.

The corners are always subjected to more strain than other parts of the wall, so for a first-class job the exterior angles should be protected with a metal corner bead, while the interior angles should be protected with a piece of metal lath. These metal pieces reinforce the plaster. If metal lath be used in place of wood lath, many of the ills of plastering are automatically avoided. Hundreds of buildings are silent but eloquent testimony to the efficiency of metal lath in preventing cracks, and it is the safest insurance against future unsightliness and trouble to use metal lath for all plaster work.

Three coat work consists in applying a first, or covering, coat that keys or clinches thoroughly with the lath. When it is dry, the second coat is applied bringing the plaster flush with the grounds. It is "rodded" and darbied" to an even surface and allowed to dry before the finish coat is applied.

And what a myriad host of finishes are possible! A previous paragraph mentioned the mirror like surface of pure white plaster. This finish is the most common, except that the cost of modern building has eliminated the glassy, glossy shine the old time plasterer used to get. Today the walls may be true and even, but rarely polished to a shine under the trowel. This finish lends itself to painting, paper, canvas, etc.

Sand finish is a texture similar to sand paper. Sometimes color is put right into the plaster and when the plasterer is through, the wall is finished and needs no further decoration. Frequently sand finish is painted, either with oil or water colors. Wall paper or canvas cannot successfully be applied to sand finish as the grains of sand obtrude and make a rough surface.

In certain architectural types of homes, notably Spanish, the sand finish is applied very roughly, every effort being made to leave tool marks on it. Sometimes this is left to age, but more frequently it is painted and the play of light and shadow is a delight to the eye. But with this type of finish, care must be used. The plaster should fit the house, lest an anachronism similar to tan shoes worn with a Tuxedo be perpetrated.

The wall finishes possible to secure with so called "putty coat white plaster are limited only by the imaginations of those concerned. The writer saw an enchanting home in which the finish coat while still plastic had been vigorously thumbed by the plasterers, and the patted effect was lovely. This was a case in which each plasterer had made his mark.

Sponges applied to plastic plaster and pulled away, floats covered with cork, felt, etc., make so called suction finishes that are delightful relief from monotony.

Sometimes the wall is covered with little dabs of finish plaster, laid out in long crisscross lines of no pattern, and a wet brush blends the whole into a delightful irregular surface. There is no limit save imagination to the effects to be obtained.

However, plaster is the "skin" of the home. It is not a structural unit. It should carry no more than it own weight, and given a fair chance to perform the proper function as it is designed to do, plaster will make walls of never ending delight.—*Building Industry.*

A study of existing specifications for common brick recently completed by the Bureau of Standards, Department of Commerce, shows that there is need for greater simplification in acceptance procedure. It is also evident that there is at present a lack of standardized test methods, judging from present building code requirements.

Study of test data obtained from a number of laboratories shows that results from certain prescribed tests for brick have a fairly definite relation to each other, thus indicating that the number of tests necessary in grading brick may possibly be reduced.

According to the present specifications of the American Society for Testing Materials there is required an absorption test, a crushing test, and a cross-bending test. These involve too much time and expense for ordinary use although the standard has been useful for reference purposes and where large purchases have been involved. On the other hand, a transverse test can be made with simple portable equipment at the plant or on the job, and future data may prove this test sufficient.

The data were also studied for relations between water absorption of brick and weathering resistance. Freezing and thawing tests, to be conclusive, must be carried up to 100 alternations or more, and cannot generally be applied in acceptance tests. If, however, the general performance in such tests could be indicated from the amount of water absorbed by the brick in a given time as immersed in a specified manner, freezing tests would not often have to be made.

The Bureau believes that the results of its study at the present time do not justify definite conclusions or recommendations, but it has been able to collect, summarize, and compare all available test data and place this material in convenient form for those who are interested in specification and building code requirements.

The impractical dreamers are not the architects, but the clients themselves, as a rule.

Reference Directory for Architects, Builders and Owners

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aker City Art Metal Works,
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dpath & Potter Co.,
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ber, F., Co. .....125 S. 12th St., Phila.
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k, Janeway, & Co..Real Estate Trust Bldg., Phila.
BRICK (Face, Common, Paving).
tcham, O. W. .....121 N. 18th St., Phila.
BUILDERS.
tchell Bros. .....2125 Race St., Phila.
iser, M. J. .....4238 Old York Road, Phila.
seph Rotornado.....4740 Milnor St., Phila.
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rvice Supply Corporation,
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st Jersey Sand & Supply Co.,
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skey Mfg. Co. ..Columbia and Howard St., Phila.
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eland Architectural Cast Stone Works,
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e Van Sciver Corporation.
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st Jersey Sand & Supply Co.,
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CEMENT WORK.
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vezey, John R. Glenwood Ave. w. of 22nd St., Phila.
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DeCou, Richard.....11th and Noble Sts., Phila.
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Thos. H. Livezey & Co.,
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Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
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Reisbord, Wolf .....4437-43 Ludlow St., Phila.
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Radiator Cabinet Co. .....Drexel Bldg., Phila.
RANGES.
Abram Cox Co....American and Dauphin Sts., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
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Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

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Harsch, Wm. F.....Narberth, Pa.
ROAD MACHINERY.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation, 20th and Venango Sts.
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Benjamin Foster Company,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.
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Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.
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Chapman Slate Co .....Bethlehem, Pa.
ROOFING TILE.
Ketcham, O. W. .....121 N. 18th St., Phila.
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Stroudsburg Septic Tank Co..328 Chestnut St., Phila.
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SEWER PIPE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
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Shaw, James, & Son Co.,
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April 7, 1926

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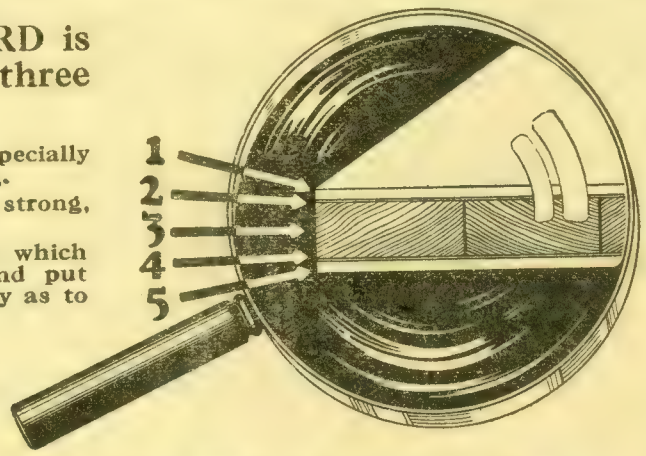
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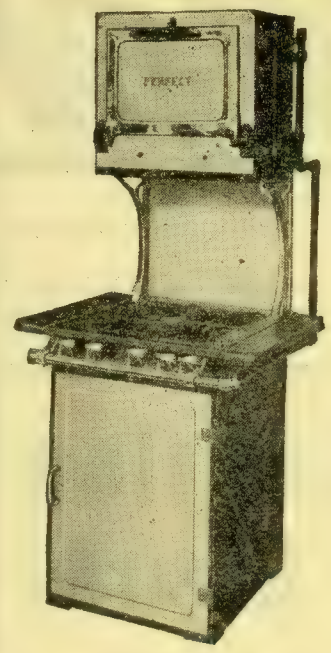
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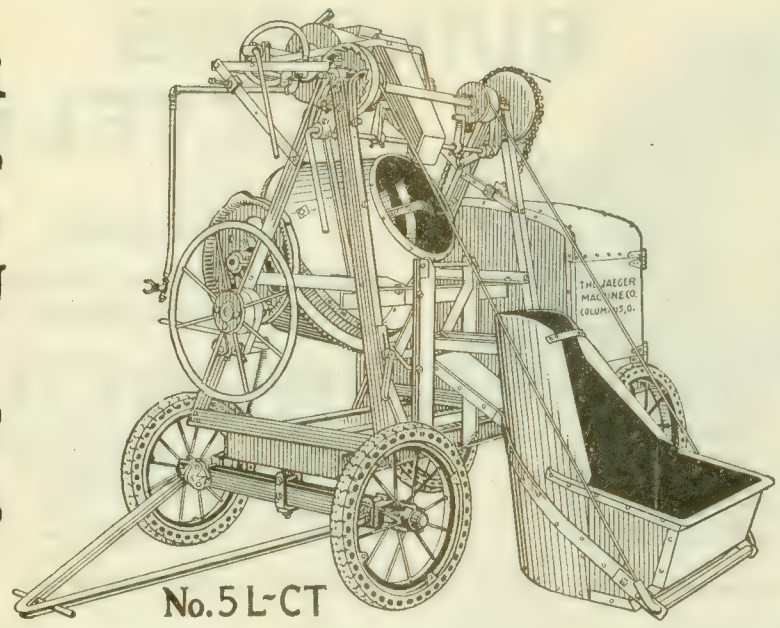
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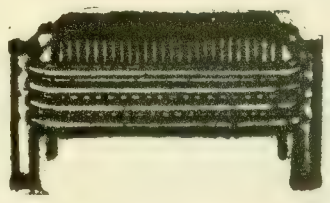
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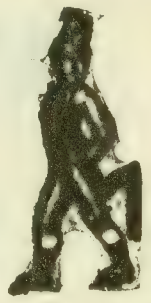
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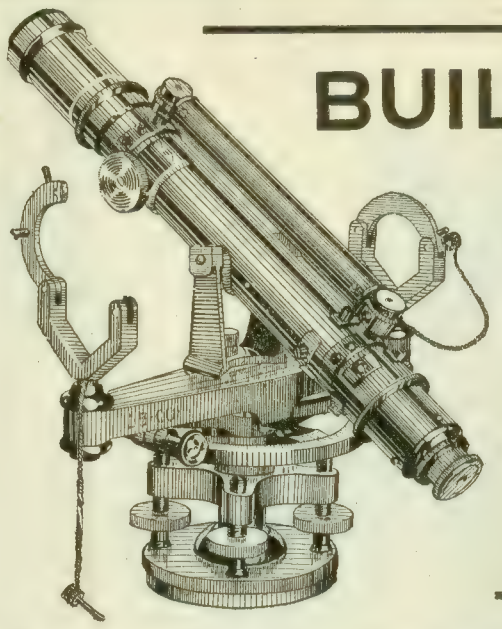
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 14

PHILADELPHIA
April 7, 1926

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Shelter Building. Corner Third & Fourth and Skunk streets, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Owners taking bids due April 13th at noon, for construction and shelter house, including plumbing and electric. Certified check 5 per cent. of bid.

Fence, Navy Yard, Philadelphia. Owners, Bureau of Yards and Docks, Navy Department, Washington, D. C. Owners taking bids due April 14th until 11 A. M. for Diamond mesh wire fencing and gate at Navy Yard Hospital, Philadelphia. Deposit, $5.

Apartment House, Thirty-ninth and Chancellor streets, Philadelphia. Architects, Neubauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, H. T. White, care of architect. Brick, concrete, steel, limestone, 4 stories and basement, 90x27 feet, slag roof, oak and pine floors, elevators, plumbing, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work, cast stone. Architects taking bids due April 12th.

Factory, Twenty-first and Allegheny avenue, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, Steel Heddle Mfg. Co., on premises. Brick, steel, concrete, 5 stories and basement, 212x145 feet, slag roof, cement floors, steam heat, electric light, elevator. Architect taking bids due April 12th.

Art Club (alts.), 220 South Broad street, Philadelphia. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Art Club of Philadelphia, 220 South Broad street, Philadelphia. General alterations. Plans in progress.

Service Station, Sixty-third and Malvern avenue, Philadelphia. Architect, private plans. Owners, Gulf Refining Co., Sydenham and Locust streets, Philadelphia. Size of lot, 80x180 feet. Plans in progress.

Church (alts. and add.), Ridge and Martin street, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Roxborough Baptist Church, on premises. Stone, brick, cut stone, steel, carpentry and mill work, slate roof, plastering, concrete and cement work, ornamental iron work, tile and marble work, electric light, composition floors. Revised plans in progress.

Restaurant Building, 217-19 South Broad street, Philadelphia. Architect, Ralph E. Benckert, Bellvue Court Building, Philadelphia. Owners, Horn & Hardart, 214 South Tenth street, Philadelphia. Brick, steel, concrete, fireproof. Plans in progress. Too early for details.

Office Building (2) Annexes, 1705-11 and 1723-33 Sansom street, Philadelphia. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Theodore Presser Foundation, 1712 Chestnut street, Philadelphia. Brick, steel, 8 stories and basement, 54x60 feet, 96x60 feet, slag roof, cement floors. Plans in progress.

Bungalow, Sesqui-Centennial Grounds, Philadelphia. Architect, George N. Dobbins, 1709 Arch street, Philadelphia. Owners, Exhibit of Paint, Oil and Varnish Club of Philadelphia, care of architect. Frame, 1 story, 32x36 feet, shingle roo, oak floors, electric light. Plans in progress.

Hospital, Philadelphia. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Osteopathic Hospital, care of architects. Brick, steel, concrete, 4 stories, 58x156 feet, slag roof, composition, tile and linoleum floors, vapor heat, electric light, metal lath, tile and marble, fire doors, bond, iron stairs, iron work, brass pipe, hollow tile, elevators, safety treads, roof ventilators, metal weather strip, waterproofing and dampproofing. Architects about ready for bids.

Apartment Building, Southwest Corner Rockland and Carlisle streets, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, M. Wolfman, 902 West Wyoming avenue, Philadelphia. Brick, steel, 3 stories, 36x88 feet, 12 apartments, Murphy door beds, slag roof, hardwood floors, hot water heat, electric light, tile work, incinerator, fire and kalamein doors. Owner taking sub-bids.

Apartment House, Cliveden street and Lincoln Drive, Philadelphia, $600,000. Architects, Sugarman, Hess & Berger, 346 Madison avenue, New York. Owners, Linclive Realty Corporation, Mr. A. Groce, New York, care of architects. Brick, limestone, cast stone, stone and steel, 4 stories, 106x300 feet, 44 apartments, slate roof, hardwood floors, elevators, vapor heat, electric light, tile and marble

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Apartment House, Ellet street, between McCallum street and Lincoln Drive. Architect, L. J. Tunis, 1600 Arch street, Philadelphia. Owners, Weiss-Koplin Co., 613 Franklin Trust Building, Philadelphia. Stone, steel, cinder block, stucco, 4 stories, 150x250 feet, 32 apartments, 226 rooms, variegated slate roof, hardwood floors, vapor heat, oil burning, electric lighe, tile and marble work, soundproof partitions, elevators, concrete work, landscaping, incinerators, refrigeration, filtration apparatus, radios. Owners will be ready for sub-bids in 10 days. Work to start in two months.

Factory (alts.), 326 North Tenth street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, M. L. Swartz, on premises. Interior alterations, carpentry and mill work, brick work, plastering, painting and glazing. Architect taking bids due as soon as possible.

Residence and Garage, Gates street, Roxborough, Philadelphia. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Harry Kauffman, Manayunk, Philadelphia. Stone, 2½ stories and basement, 30x43 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Architect taking bids due April 8th.

Store Building (alts. and add.), Second and Brown streets, Philadelphia. Architect, I. Demshick, 1701 Chestnut street, Philadelphia. Owners, Soiffer Brothers & Cutler, 1304 Arch street, Philadelphia. Brick, limestone, reinforced concrete, steel, hot water heat, electric work, slag roof, oak floors, metal lath, tile work, demolition, plumbing, metal ceilings, iron work. Architect taking bids due April 19th.

Club (alts. and add.), Northwest Corner Thirteenth and Master streets, Philadelphia. Architect, Conrad Neff, 1200 Locust street, Philadelphia. Owners, Fidelity Club, care of architect. Brick, 3 stories, 59x29 feet, slag, tin roof, composition and maple floors, painting and glazing, dampproofing, tile work, rolled steel sash, hollow metal skylights, tin-lined doors, bond, ornamental iron work, dumb waiters, demolition. Architect taking bids due April 12th.

New Store Building, 5611-13 North Fifth street, Philadelphia. Architect, Edward L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Zola Rosenfeld, 2900 North Fifth street, Philadelphia. Brick, cut stone, concrete, steel, 3 stories and basement, 220x40x90 feet, slag roof, reinforced concrete, composition cement floors, elevators, painting and glazing, waterproofing, iron stairs, ornamental iron work, kalamein doors, rolled steel sash and skylights, tile and marble work, metal lath, steam heat, electric light, steel toilet partitions, sprinkler systems, oil burners. Architect taking bids on revised plans due as soon as possible.

Twin Residences (3 pairs), Fifty-first and Woodbine avenue, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Suburban Development Co., Pennsylvania Building, Philadelphia. Architects taking bids due April 9th.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Owners taking bids due April 6th. Grading, paving, asphalt repaving, redressed granite block repaving, improving of road in front of Commercial Museum. Certified check, 5 per cent.

Residences (6), East side Martin's Mill road, South of Oakley street, $5,000 each. Architect, private plans. Owner, Hyman Korman, Oxford avenue and Levick street, Philadelphia. Frame and brick, 2 stories, 15x43 feet, hot water heat, electric light. Permit granted.

Shed, East side Hutchinson street, North of Ontario street, Philadelphia, $2,500. Architect, private plans. Owners, Frank C. Snedaker Co., Ninth and Tioga streets, Philadelphia. Frame, 1 story, 100x20 feet. Permit granted.

Residences (7), Devereaux, Vandyke and Torresdale avenue, $54,000. Architect, private plans. Owner, Frank Storck, 426 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (19), Fifteenth and Grange streets, Philadelphia, $139,000. Architect, private plans. Owners, John Loughran's Sons, Sixteenth and Grange avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (8), Bingham and Gilham streets, Philadelphia. Architect, private plans. Owners, Caphi & Forman, 6132 Media street, Philadelphia. Brick, 3 stories, 16x32 feet, and 2 stories. 15x27 feet, 12x16 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, 417 North Simpson street, Philadelphia, $5,200. Architect, private plans. Owner, Frank Maggetti, 413 North Simpson street, Philadelphia. Brick, 2 stories, 16x51 feet, slag roof, hardwood and pine floors, electric light. Permit granted.

Residence, South side Shelmire street, East of Whittaker street, $4,500. Architect, private plans. Owner, David McCoach, 3419 North Howard street, Philadelphia. Brick, 2

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stories, 30x25 feet, slag roof, pine floors, electric light. Permit granted.

Residences (5), Jackson street, Tyson and Magee streets, $4,000 each. Architect, private plans. Owner, Louis Laib, 6638 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (2), East side Montour street, South of St. Vincent street, $4,000 each. Architect, private plans. Owner, Henry Perlman, 1225 Cottman street, Philadelphia. Brick, 2 stories, 14x40 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (34), Sixty-ninth and Dicks avenue and Sylman and Buist avenue, Philadelphia, $208,000. Architect, private plans. Owners, Shapiro & Reed, 1530 South Fifty-seventh street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, electric light. Permit granted.

Residence, South side Ripley street, East of Loretto street, Philadelphia, $7,500. Architect, private plans. Owner, Henry E. Durst, Rhawn and Castor streets, Philadelphia. Frame, 1 story, 33x45 feet, hardwood and pine floors, electric light. Permit granted.

Residence, South side Afton street, West of Bustleton avenue, $5,000. Architect, private plans. Owner, Henry E. Durst, Rhawn and Castor streets, Philadelphia. Frame, 1 story, 37x27 feet, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (6), East side Ditman street, North of Princeton street, $4,000 each. Architect, private plans. Owner, Daniel E. Gercke, 3114 Disston street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (4), 2722-24-26-28 Alresford road, Philadelphia, $3,500 each. Architect, private plans. Owner, Wladyslaw Dunaj, 4728 Stiles street, Philadelphia. Brick, 2 stories, 14x40 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residence, North side Wheatsheaf lane, West of Salmon street, $3,000. Architect, private plans. Owners, A. and J. Lotozo, 3411 East Thompson street, Philadelphia. Brick, 2 stories, 16x55 feet, pine floors, electric light, hot water heat. Permit granted.

Factory (repairs), 1708-12 North Front street, Philadelphia, $3,000. Architect, private plans. Owner, Nathan Love, 105 West Columbia avenue, Philadelphia. General fire repairs. Permit granted.

Filling Station, Church lane, South of Chester avenue, $2,000. Architect, private plans. Owners, Peerless Service Station, 144 South Fifty-second street, Philadelphia. Brick, 1 story, 12x20 feet. Permit granted.

Service Station, Southeast Corner Germantown and Meehan street, $6,000. Owners, The Chaitt Co., 6225 Wayne avenue, Philadelphia. Brick, 1 story, 20x30 feet, slag roof, cement floors. Permit granted.

Apartment House, 3416-18 Haverford avenue, Philadelphia, $125,000. Architects, Stetler & Deysher, 1015 Chestnut street, Philadelphia. Owner, Barclay W. Glover, 6050 Girard avenue, Philadelphia. Brick, 4 stories, 38x31 feet, 50x19 feet, 34x98 feet, hot water heat, electric light, hardwood and pine floors. Permit granted.

Residences (54), Torresdale avenue, Vista, Loring and Bleigh streets, Shelmire and Edmund streets, Philadelphia, $309,000. Owner, John R. Vantine, 1611 Walnut street, Philadelphia. Brick, 2 and 3 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (50), Stafford, Musgrave, Stokes and Price streets, $214,800. Architect, private plans. Owners, Rotfeld & Bahn, 5708 North Twelfth street, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Permit granted.

Apartment, Southeast Corner Sixteenth and Grange streets, Philadelphia, $15,000. Architect, Karl F. Otto, 1428 Arch street, Philadelphia. Owners, John Loughran's Sons, Sixteenth and Grange streets, Philadelphia. Brick, 3 stories, 25x30 feet, 40x14 feet, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, South side Chelten avenue, West of Seventh street, Philadelphia, $13,500. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, R. M. Gerckes, 215 South Fifth street, Philadelphia. Stone, 3 stories, 42x26 feet, 25x9 feet, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (2), West side Dungan road, North of Shelmire street, $5,500 each. Architect, private plans. Owner, A. Irving Knickerbocker, 7508 Montour street, Philadelphia. Frame, 2 stories, 25x33 feet, shingle roof, hardwood and pine floors, electric light. Permit granted.

Residences (10), 5400-18 Saul street, Philadelphia, $4,000 each. Architect, private plans. Owner, Wilfred Robinson, Arrott and Oakland streets, Philadelphia. Brick, 2 stories, 19x27 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Pumping Station Sewage Disposal Plant, Richmond and Wheatsheaf lane, Philadelphia. Architect, private plans. Owners, Department of Public Works, Bureau of Engineering, City Hall. Low bidders: Evans-steel, 2217 Chestnut street, $329,876; Stange Const. Co., 2031 South Broad street, Philadelphia, $339,000. Heating, A. McClintock & Son, 1937 Ridge avenue, Philadelphia, $4,495. Plumbing, Edward F. Roberts, 2622 Columbia avenue, Philadelphia, $2,737. Electric, Ross Electric Co., 106 Fairmount avenue, $95,800. Mechanical equipment, Charles M. Brown Co., Lafayette Building, $253,000.

Welfare Building, South Broad street, in League Island Park, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Department of Public Welfare, 595 City Hall. Reinforced concrete, brick, cut stone, stucco, 1 story, 92x49 feet (plumbing, heating, electric separate bids), asphalt slate and shingle roof, mastic, cement, tile and terrazzo floors, hollow tile, painting and glazing, metal lath, bond, ornamental iron work, metal toilet partitions. Low bidders: McCormick-Lenham Co., 2403 South Broad street, $39,485; D. Lutz & Co., Twenty-third and Chestnut streets, Philadelphia, $40,-700. Electric, United Electric Co., 2318 Sansom street, Philadelphia, $760. Plumbing, Mellon & Co., 4415 Ludlow street, Philadelphia, $2,285. Heating, Mellon & Co., 4415 Ludlow street, Philadelphia, $1,685.

Funfield Recreation Center (imp.), Twenty-second and Sedgley streets, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Bureau of Recreation, Department of Public Welfare, 595 City Hall. Reinforced concrete, cut stone, brick, steel, granite, 1 seory and basement, 80x45 feet, slag and tin roof, cement, maple and pine floors, lockers, metal lath, marble work, hollow metal doors, ornamental iron work, iron stairs, roof ventilators, dampproofing, area gratings. Low bidders: J. B. McHugh, 1617 Race street, Philadelphia, $57,400; Ralph Herzog, 10 South Eighteenth street, Philadelphia, $59,900. Heating, William Ambrose & Son, Levering and Umbria streets, $3,626. Plumbing, William Ambrose & Son, Levering and Umbria streets, $2,146. Electric, Wharlen Crosby, 140 North Eleventh street, Philadelphia, $1,321. Low bidder on 24-inch pipe and 16-inch pipe lines in Northeast section: M. & J. B. McHugh, 892 North Markoe street, Philadelphia, $228,-271.90.

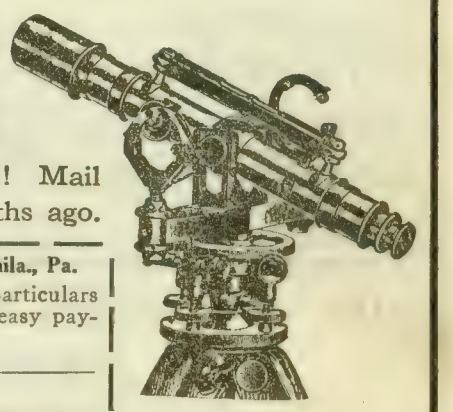
Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

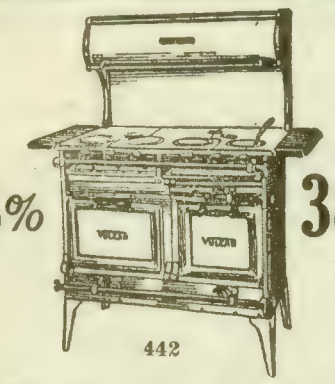
Store Building, Northeast Corner Seventh and Chestnut streets, Philadelphia. Architect, private plans. Owners, United Cigar Co., 1 West **Eighteenth street,** New York City. Brick, cut stone, heating, electric light, tile and marble work, plate glass, plastering, plumbing, painting and glazing, copper bars, carpentry and mill work. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia.

Banking House, Sixteenth and Walnut streets, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Samuel Clements, Packard Building, Philadelphia. Lessees, Brown Brothers o., 330 **Chestnut street,** Philadelphia. Brick, granite, limestone, structural steel, concrete arches, 6 stories, 118x50 feet, slag roof, cement floors, metal partitions, mill work, plastering, mail chutes, weather strip, caulking,

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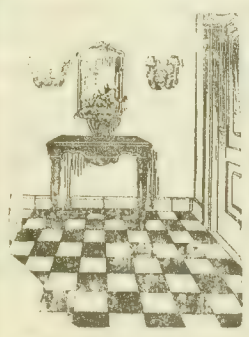
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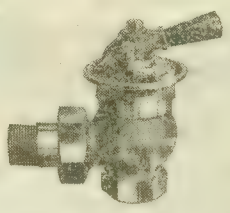
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painting and glazing, hardware, plumbing, steel stairs, ornamental iron work, bond, terrazzo work, kalamein doors, rolled steel sash and skylights, slate and marble work, electric light, oil burning vacuum heat. Contract awarded Murphy-Quigley, 1524 Sansom street, Philadelphia.

Store (add. and alts.), 248 South Sixtieth street, Philadelphia, $9,000. Architect, private plans. Owner, C. Wahl Olmes, 248 South Sixtieth street, Philadelphia. Brick, third story add., 20x88 feet, general alterations. Contract awarded to H. A. Paxson, 6225 Lancaster avenue, Philadelphia.

Residence (alts.), 2041 Locust street, Philadelphia, $5,000. Architect, private plans. Owners, Georgian Lighting Shop, 225 South Seventeenth street, Philadelphia. General alterations. Contrace awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Office, 439 East Collom street, Philadelphia, $3,500. Architect, private plans. Owners, H. P. Rinehart & Son, on premises. Brick, 1 story, 21x25 feet. Contract awarded to Monroe Black, 1524 North Tenth street, Philadelphia.

Residences (4), North side Chelwynde avenue, West of Seventy-seventh street, $2,500 each. Architect, private plans. Owner, Joseph C. Cernide, 7801 Buist avenue, Philadelphia. Brick, 2 stories, 14x35 feet, slag roof, pine floors, electric work. Contract awarded to John McEnhill, Eighty-third and Tinicum avenue, Philadelphia.

Store and Storage (add. and alts.), 4850 North Front street, $2,000. Architect, private plans. Owner, M. Queen, on premises. Brick, 1 story add., front 17x4 feet, side 3x37 feet, general alterations. Contract awarded to H. Rubin, 4843 North Hutchinson street, Philadelphia.

Apartment House, Forty-third and Locust streets, Philadelphia. Architect, Philip M. Julian, 823 Fifteenth street, Washington, D. C. Owners, Forty-third and Locust Streets Building Co., care of architect. Brick, reinforced concrete, 10 stories and basement, slag roof, pine and oak floors, elevators, metal weather strip, integral waterproofing, architectural terra cotta, ornamental iron work, iron stairs, bond, hollow metal doors, tile and marble work, metal lath, electric light, steam heat, kitchen equipment, mail chute. Contract awarded R. P. Whitty Co., Washington, D. C.

Huntingdon Hall Apartment House, Twentieth and Walnut streets, Philadelphia. Architect, P. M. Julian, Edmunds Building, Washington, D. C. Owners, Wellington Building Co., care of F. H. Smith, 815 Fifteenth street, N. W., Washington, D. C. Brick, concrete, architectural terra cotta, steel, 15 stories, mezzanine and basement, 125x35 feet, slag roof, cement, oak floors, hollow tile, elevators, painting and glazing, roof ventilators, metal weather strip, integral waterproofing, steam heat, electric light, metal lath, tile and marble work, hollow metal doors, bond, iron stairs, ornamental iron work, laundry equipment, mail chute, refrigerators, revolving doors, disappearing beds, wire partitions, metal show windows, screens, bath room accessories, ironing boards. Contract awarded R. P. Whitty Co., Washington, D. C.

Factory Building, A and Courtland streets, Philadelphia. Architect, E. A. Wightman, Bankers' Trust Building, Philadelphia. Owners, Concordia Silk Hosiery Co., on premises. Brick, steel, iron, 2 stories and basement, 190x100 feet, slag roof, concrete floors, fireproofing, partitions, elevators, plumbing, sprinkler, vacuum heat, oil burning, electric light, rolled steel sash, hollow metal doors, dampproofing. Contract awarded H. H. Wehmeyer, 509 West Cumberland street, Philadelphia.

Store and Office Building, 1107-09 Market street, Philadelphia. Architect, private plans. Owners, Philadelphia & Reading Railroad, Twelfth and Market streets, Philadelphia. Reinforced concrete, brick, limestone, steel, 9 stories and basement, 50x180 feet, slag roof, cement floors, elevators, steam heat, electric light, metal lath, tile and marble work, ornamental iron work. Contract awarded Irwin & Leighton, 126 North Twelfth street, Philadelphia, without competition.

Palace of Fine Arts, Broad street, near Navy Yard, Philadelphia, $240,000. City architect, John Molitor, Bankers' Trust Building, Philadelphia. Owners, Sesqui-Centennial Exposition, United States Government, Philadelphia. Structural steel, metal lath, stucco, 1 story, 220x500 feet, slag roof, pine floors, electric light, metal lath. Contract awarded Turner Const. Co., 1700 Walnut street, Philadelphia.

Palace of Fashion, Broad and Pattison avenue, Philadelphia. Associate architects, George F. Pawling, Louis Kahn and Herman Poloss, 1432 South Penn Square, Philadelphia. Owners, Textile Exhibit Association, C. Meyers, 523 Chestnut street, Philadelphia. Steel, metal lath, stucco, 1 story, octangular shape, 840 feet in diameter, composition roof, cement and oak floors, painting and plumbing, plastering, sheet metal work, electric light, metal lath, rolled steel sash (steel reserved). Contract awarded Thompson-Starrett Co., Packard Building, Philadelphia, who are taking sub-bids. (Note contractor.)

Dairy Building, McKean street and Colorado street, Philadelphia. Architect, Walter Smedley, 1226 Stephen Girard Building, Philadelphia. Owners, Abbott's Alderney Dairies,

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C. R. Lindback, president, on premises. Brick, cut stone, steel, 2 stories and basement, 64x50 feet, Barrett specification roof, cement floors, painting and glazing, safety treads, roof ventilators, plumbing, architectural terra cotta, steam heat, electric light, metal lath, tile work, hollow metal sash and doors, rolled steel skylights, bond, cork insulation, sidewalk lifts. Contract awarded W. O. Springer, 2004 Naudain street, Philadelphia.

Residences (2), 5729-31 North Camac street, Philadelphia, $9,800. Architect, private plans. Owner, Bertram Tressel, Northeast Corner Seventh and Cherry streets, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, pine floors, electric work. Contract awarded to N. S. Hunsberger, 3711 South Ninety-first street, Philadelphia.

Residence, Northeast Corner Longshore and Frontenac streets, $6,500. Architect, private plans. Owner, Charles Seifin, 3930 Parrish street, Philadelphia. Brick, 2 stories, 28x20 feet, 18x5 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Louis Seifen, 1334 Cottman street, Philadelphia.

Club House (add.), 2806 East Allegheny avenue, Philadelphia. Architect, Sigmund Laschinski, 1220 Locust street, Philadelphia. Owners, Polish-American Association, M. Bednarek, care of architect. Brick, steel, 2 stories and basement, 50x160 feet, slag roof, cement, pine floors and marble work, iron stairs, linoleum, steam heat, electric light, metal lath, tile work. Contract awarded Sigmund Ozga, 3370 Salmon street, Philadelphia.

Garage and Service Station (alts.), 4743-45-47 North Broad street, $10,500. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Beckman Brothers & Co., 45 South Seventeenth street, Philadelphia. Steam heat, electric light, terrazzo work, slag roof, stone work, cement work, cut stone, brick work, iron work, carpentry and mill work, plastering, painting, glazing, plumbing. Contract awarded to William G. Uhler & Sons, Twenty-fifth and Snyder avenue.

Storage Building, South side Gurney, West of B street, $90,000. Architect, private plans. Owners, John Bromley & Son, Inc., Lehigh avenue below Front. Steel, brick, 3 stories, 62 feet 9 inches x 153 feet. Contract awarded to H. M. Wilson Co., 20 South Fifteenth street, Philadelphia.

Residence, Northeast Corner Gates and Catthias streets, Philadelphia, $14,500. Architect, private plans. Owner, James Cote, 151 DuPont street, Philadelphia. Brick, 2 stories, 26x35 feet, 11x11 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded t oAdam Wilkinson, 439 Harmon road, Philadelphia.

Residence, Southeast Corner Hermitage and Shalkop streets, Philadelphia, $7,000. Architect, private plans. Owner, Andrew F. Zell, Wilde street, Philadelphia. Brick, 2 stories, 20x33 feet, hardwood and pine floors, electric light. Contract awarded to Adam Wilkinson, 439 Harmond road, Philadelphia.

Store and Residence (add. and alts.), 5221 Walnut street, $8,500. Architect, private plans. Owner, S. E. Elvan, on premises. Brick, 1 story add., 12x49 feet, general alterations. Contract awarded to Harry Devletian, 5948 Walnut street, Philadelphia.

Office, East side Frankford avenue, North of St. Vincent street, $4,500. Architect, private plans. Owner, Frank Molter, 2802 Girard avenue, Philadelphia. Brick, 1 story, 16x40 feet. Contract awarded to P. Haibach Cont. Co., 1261 North Twenty-sixth street.

Residence (alts.), 6635 North Eleventh street, Philadelphia, $3,600. Architect, private plans. Owners, Oak Lane Presbyterian Church, on premises. General alterations. Contract awarded to William J. Baltz, Sixty-sixth and Lawnton avenues, Philadelphia.

Residence and Store (alts.), 4100 Lancaster avenue, Philadelphia, $3,500. Architect, private plans. Owner, Jacob Gartman, 1805 South Fifty-eighth street, Philadelphia. General alterations. Contract awarded to Blot & Baust, 403 East Thirty-fourth street, New York.

Store (add.), 1304 Sansom street, Philadelphia, $3,000. Architect, private plans. Owners, Pennsylvania Trust Co., Fifteenth and Chestnut street, Philadelphia. Brick, 1 story add., 31x27 feet. Contract awarded to Joseph G. Louderback, Hanson and Locust streets.

Store and Residence (add.), Southeast Corner Twenty-seventh and Silver streets, $4,500. Architect, private plans. Owner, Harry Grodsky, 2654 Silver street, Philadelphia. Brick, 2 stories, 14x14 feet. Contract awarded to Sol. Getz & Son, 2720 West Oxford street.

Residences (2), 5722-24 Erdrick street, Philadelphia, $5,100 each. Architect, private plans. Owner, William H. Walbridge, Jr., 5800 Erdrick street, Philadelphia. Brick, 2 stories, 14x43 feet, slag roof, pine and hardwood floors, hot water heat, electric light. Contract awarded to Felix Tatko, 5103 Edmund street, Philadelphia.

Garage, 2503-09 West Huntingdon street, Philadelphia, $3,500. Architect, private plans. Owner, Daniel Smith, 2503 West Huntingdon street, Philadelphia. Brick, 1 story, 36x72 feet, slag roof, cement floors. Contract awarded to William J. Butterly, 2212 West Lehigh avenue.

Residences (14), 2617-33 Venango street, Philadelphia, $57,000. Architect, private plans. Owners, Schector & Lushner, 603 Sixty-sixth avenue, Philadelphia. Brick, 2 stories, 16x48 feet, 16x44 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Abe Lashner, 4807 North Eighth street, Philadelphia.

Residences (2), West side Princeton avenue, North of Algard street, $6,000 each. Architect, private plans. Owners, Vaughan & Sharkey, 1336 East Montgomery avenue, Philadelphia. Brick, 2 stories, 16x52 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Henry Vaughan & Sons, 1336 East Montgomery avenue.

Shop (add.), 1427 Fairmount avenue, Philadelphia, $4,000. Architect, private plans. Owners, R. & B. Radiator Co., on premises. Brick, 1 story add., rear 10x18 feet, side 3x24 feet. Contract awarded to National Const. Co., 26 South Fifteenth street, Philadelphia.

Garages (2), Frankford and Somerset street, and Coral and Somerset streets, $5,500 total. Architect, private plans. Owners, Noll & Kettman, 2352 North Thirteenth street, Philadelphia. Brick, 1 story, 18x70 feet and 16x64 feet, slag roof, cement floors. Contract awarded to Fred Kettman, 5720 North Twelfth street, Philadelphia.

Garage, Frankford avenue, South of Somerset street, $3,000. Architect, private plans. Owners, Noll & Kettner, 2352 North Thirteenth street, Philadelphia. Brick, 1 story, 17x66 feet, slag roof, cement floors. Contract awarded to Fred Kettman, 5720 North Twelfth street, Philadelphia.

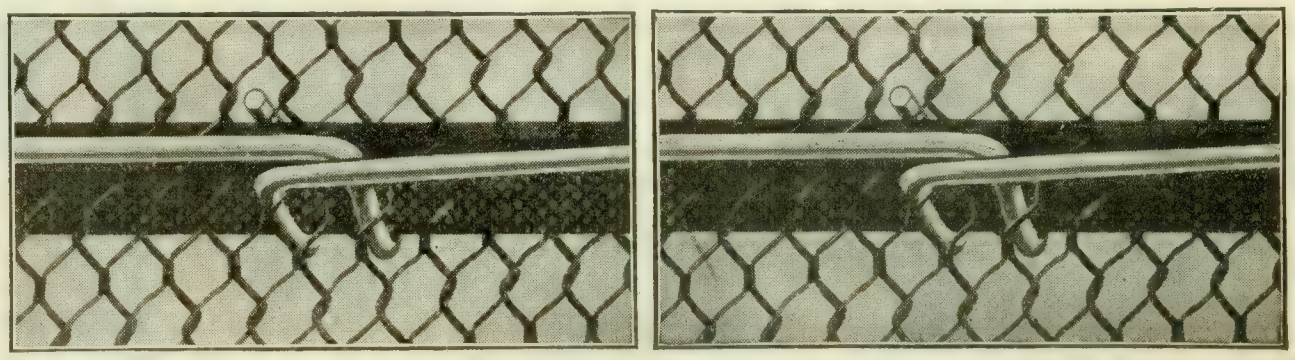
Office and Storage (alts.), 112 South Fourth street, Philadelphia, $2,000. Architect, private plans. Owners, Silliman Funnel Co., 330 Walnut street, Philadelphia. General alterations. Contract awarded to Carr & Courtenay, 3025 Poplar street, Philadelphia.

Pennsylvania Construction News

Residence, Noble Vista, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Joseph T. Greenwood, Esq., Noble Vista, Pa. Stone, steel, 2½ stories and basement, 76x40 feet, shingle roof, oak and pine floors, plumbing, electric light, metal lath, tile work, rolled steel sash. Architect taking bids due April 13th.

Residence, Merion, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owner, Joseph Stelwagon, Merion, Pa. Stone, cut stone, steel, 2½ stories and basement, 60x58 feet, variegated slate roof, oak and pine floors (heating reserved), electric light, metal lath, tile and marble work, kalamein doors, bond, ornamental iron work,

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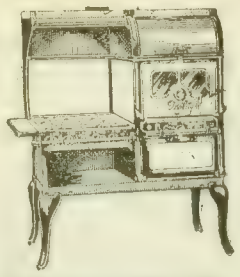


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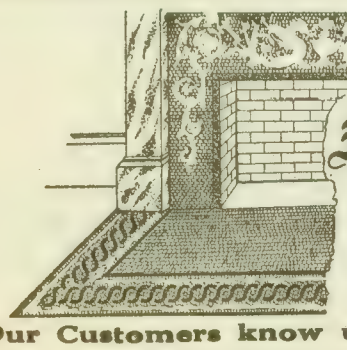
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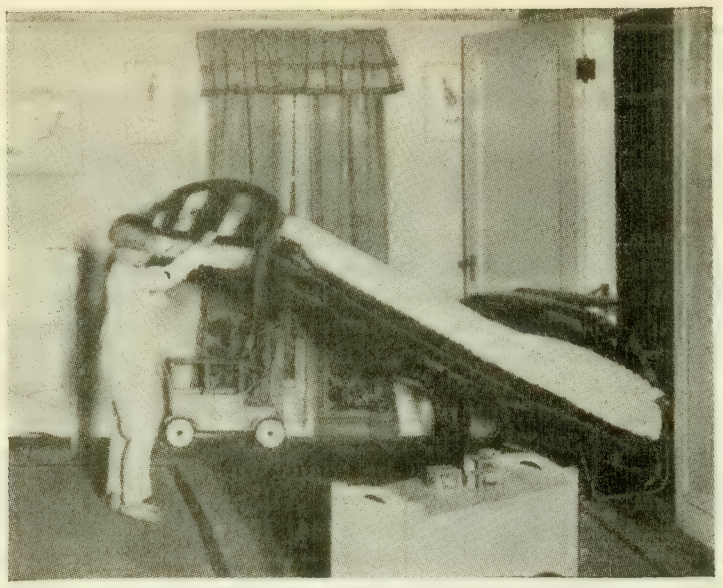
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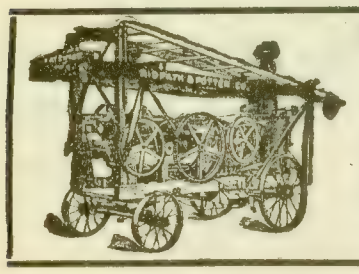
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Laundry and Power House, Aubrey avenue, Ardmore, Pa. Architect, private plans. Owners, St. Mary's Laundry, Ardmore, Pa. Stone, brick, concrete block, steel, 1 story and basement, 146x100 feet, slag roof, composition and cement floors, electric light, metal lath, tile work, terrazzo work, rolled steel sash and skylights, hollow metal doors, ornamental iron work, bluestone, plumbing, roof ventilators, dampproofing, Duraflex floors. Bids due April 14th.

Garage and Retaining Wall, 400 Gowen avenue, Mt. Airy, Pa. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owner, Mrs. Charles Z. Klauder, on premises. Stone, concrete, steel, 1 story, 18x20 feet, concrete and pitch roof, cement, plumbing, waterproofing, electric light, metal lath. Architects taking bids due April 12th.

Hospital, Coatesville, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Coatesville Hospital, Coatesville, Pa. Brick, steel, cut stone, 3 stories and basement, 120x40 feet, slate roof, tile work (electric, heating, ventilating and elevators reserved), rolling steel skylights, fire doors, iron stairs, ornamental iron work, composition, cement and Duraflex floors, hollow tile, plumbing, bluestone, cast iron pipe. Revised plans in progress. Will be ready for new bids in about 3 weeks.

School, Hatboro, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School Board of Education, Hatboro Township, Hatboro, Pa. Plans will be ready April 19th.

Sales and Service Building, Stores (5) and Dance Hall, Manoa, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owner, W. G. Boyd, Manoa, Pa. Cement block, stucco, 2 stories and basement, 80x80 feet. Plans about completed. Ready for bids in a few days.

Church, Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Board of Home Missions of Reformed Church, Schaff Building, Philadelphia. Stone, 2 stories and basement, 40x60 feet, slate roof, hardwood floors, structural steel, hot water heat. Plans in progress. Will be ready for bids in two weeks.

School, Auditorium and Garages, Bangor, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Borough of Bangor School Board, Ralph Sayre, Bangor, Pa. Brick, steel, 2 stories, 6 rooms, built-up roof, maple floors, hollow tile, electric light, metal lath, rolled steel sash, iron stairs. Architects will be ready for bids next week.

Residences (28), Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, J. Schnitzer, 209 South Seventeenth street, Allentown, Pa. Brick, 2½ stories, 28x30 feet, slate roof, pine floors, hot water heat, electric light. Owner will take bids.

Hospital Building, Eaglesville, Pa. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Eaglesville Sanatorium, Eaglesville, Pa. Plans about completed. Architects will be ready for bids in about 10 days.

Convent, Clearfield, Pa. Architect, P. J. Morris, Mears Building, Scranton, Pa. Owners, St. Francis' Roman Catholic Church, Rev. A. E. Leitzinger, Clearfield, Pa, Brick, 3 stories, 44x68 feet, slag roof, hardwood floors, city heat, electric light, tile work, leaded glass, cut stone, iron stairs, ornamental iron. Owners ready for bids.

Residence (add. and alts.), Jefferson avenue, Scranton, Pa. Architect, P. J. Morris, Mears Building, Scranton, Pa. Owner, J. T. Roratsos, 846 Jefferson avenue, Scranton, Pa. Frame, stucco, 3 stories, 48x36 feet, tile roof, hardwood floors, electric light, tile work. Architect ready for bids.

Warehouse (alts.), Lackawanna avenue, Scranton, Pa. Architects, E. H. Davis and George M. D. Lewis, Union Bank Building, Scranton. Owners, Scranton Dry Goods Co., Scranton, Pa. Brick, steel, slag roof, elevator doors, cut stone, rolled steel sash, kalamein doors, metal clad doors, general alterations. Architects taking bids.

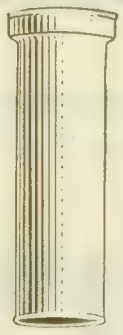
Sunday School, Auditorium and Parish House, Scranton, Pa. Architects, E. H. Davis and George M. D. Lewis, Union Bank Building, Scranton. Owners, Church of Good Shepherd, Rev. B. Beach, Scranton, Pa. Fireproof, brick, steel, 2½ stories, 40x100 feet, Barrett roof, hardwood and tile floors, hollow tile, dampproofing, leaded glass,tile work, metal lath, steam heat, electric light. Architects ready for bids due April 10th.

Rectory, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, St. Aloysius' Roman Catholic Church, Rev. D. W. McCarthy, 327 Barney street, Wilkes-Barre, Pa. Brick, stucco, 3 stories, 51x65 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble, ornamental plaster. Architects ready for bids.

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Have you seen the boiler with the combustion ring? If you haven't seen it work, then you don't know the saving that the ring (illustrated below) makes in the amount of fuel used and the increased length of the firing period.

The combustion ring surrounds the firepot to a height of 4½ inches above the grates, and it has increased the heating capacity alone of the boiler to equal that of a size larger in the old style type.

This ring prevents the lower portion of the firebed from coming in contact with the water sections which surround the firepot. The cool water returning from the radiators, enters both sides of the boiler at the bottom of the water section. This water, because it is much cooler than the fire, chills the fire around the sides of the pot, below the temperature of combustion. The result is, that the boiler requires more frequent attention. Also, partly burned fuel along the sides of the firepot is wasted because there is no fire under it to burn it and it settles down to the grates, passing to the ashpit when the fire is shaken.

But with the combustion ring, there is a clean, even-burning fire over the entire area of the firepot. There is no water back of the ring to draw the heat from the fire and to chill it. All of the fuel is completely consumed and more heat is produced from the same amount of coal burned.

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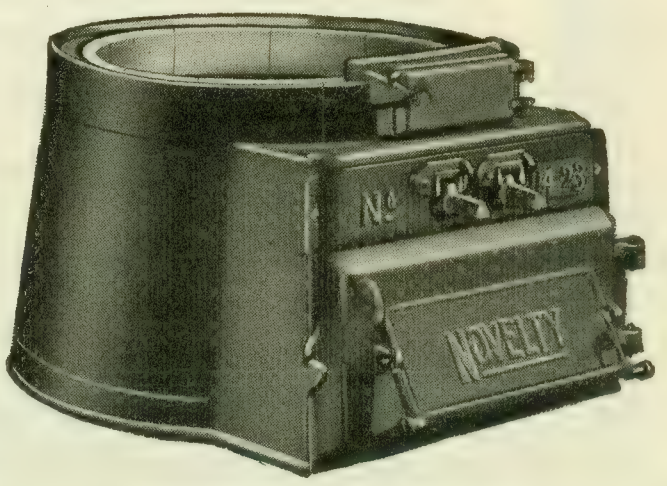


Illustration of Combustion Ring

1.

Straight, deep firepot. Straight pot prevents the collection of ashes along the side as occurs in sloping firepot. This collection of ashes always has a deadening effect on the fire just where it should be hottest.

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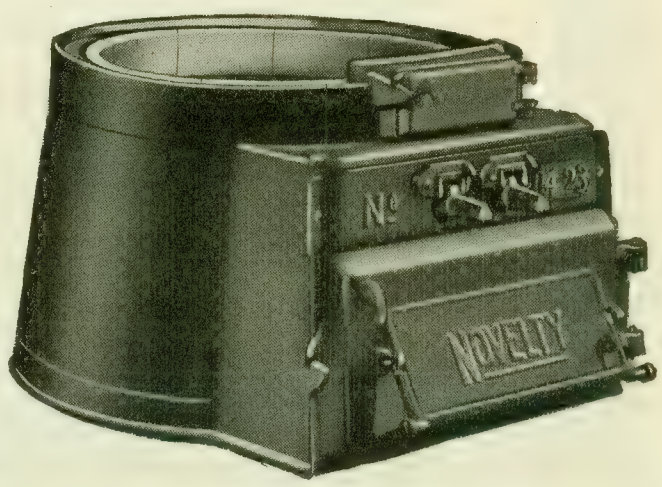


Illustration of Combustion Ring

Sunday School and Parish House, Wilkes-Barre, Pa. Architects, T. A. Atherton and Thomas Foster, 139 South Main street, Wilkes-Barre. Owners, Presbyterian Congregation, Rev. P. Heath, 242 South Franklin street, Wilkes-Barre, Pa. Stone, brick, steel, 3 stories and basement, 45x200 feet, slate roof, linoleum floors, hollow tile, ornamental iron, iron stairs, rolled steel sash, tile and marble, metal lath (heating, plumbing and electric separate). Architects ready for bids.

Church, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owners, St. Joseph's Slavoc Church, care of architects. Steel, stone, 1 story and basement, 54x119 feet, slate roof, hardwood floors, steam heat, electric light, metal lath, tile and marble, steel sash, rubber tile. Architects about ready for bids.

Twin and Single Residences, Kingston and Shirley road, Upper Darby. Architerts, Stetler & Deysher, Jefferson Building, Philadelphia. Owner, David Hagen, 5429 Montgomery avenue, Philadelphia. Stucco on brick, 2½ stories, 16x42 feet, 24x35 feet, slate roof, hardwood and cement floors, hot water heat, electric light, metal lath, tile work, basement garages. Plans completed. Owner will build.

Twin Residences (2), Richmond, Llanerch, Pa. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owner, H. F. Miller, 1434 North Fifty-second street, Philadelphia. Hollow tile, stucco, 2½ stories, 27x30 feet, tile roof ,hardtood floors, hot water heat, electric light, tile work; 1 residence, 29x29 feet, shingle roof. Owner will build. Plans completed.

Twin and Single Residences (30), Yeadon, Pa. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owners, Mench & Manley, Fifty-ninth and Cedar avenue, Philadelphia. Frame, stucco, 2½ stories, 16x37 feet, 24x32 feet, composition and shingle roof, hardwood floors, cement work, hot water heat, electric light, tile work, metal lath, basement garages. Owners ready for sub-bids. Work to start May 1st.

Apartment House, 850 Parker street, Chester, Pa. Architect, private plans. Owner, Fred P. Peel, Chester, Pa. Brick, steel, 4 stories and basement, 60x95 feet, slag roof, oak, pine and cement floors, plumbing, kitchen equipment, Murphy door beds, incinerator, hot water heat, electric light, tile work, metal lath, ornamental iron work. Owner taking sub-bids and general bid.

Residence, No. 2, Bryn Mawr, Pa. Architect, private plans. Owners, Dolman & Co., 1341 Chestnut street, Philadelphia. Stone, 2½ stories and basement, 60x25 feet, shingle roof, oak and pine floors, vapor heat, electric light, metal lath, tile work, ornamental iron work. Owners taking bids due as soon as possible.

Residence and Garage, Wynnewood, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Samuel C. Wagner, Jr., Wynnewood, Pa. Stone, 2½ stories and basement, 97x31 feet, shingle roof, oak and pine floors, vapor heat, electric light. Architects taking bids due April 10th at noon.

School (add.), Springfield, Delaware County, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Board of Education, Springfield, Delaware County, Pa. Stone, second floor add., 8 class rooms, slag roof. Owners taking bids due April 20th. Deposit, $25. Refund, $15.

Grade School (add.), Swarthmore, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Board of Education, Swarthmore, Pa. Four or five-room additions. Owners taking bids due April 20th. Deposit, $25. Refund, $15.

Grade School, Wynnewood road, Wynnewood, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Board of Education, Wynnewood, Pa. Brick, stone. Owners taking bids due April 20th.

Engine House (add.), Marcus Hook, Delaware County, Pa. Architect, Wallace E. Hance, Holly Oak, Del. Owners, Marcus Hook Fire Co., No. 1, Marcus Hook, Pa. Brick, cut stone, steel, 2 stories, 53x49 feet, Johns Manville asphalt roof, cement floors, painting and glazing, metal ceilings, bond, ornamental iron work, steam heat, electric light, metal lath. Architect taking bids due April 12th.

Residence, Nazareth, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, David Koch, Nazareth, Pa. Brick, 2 stories, 24x30 feet, slate roof, hardwood floors, hot water heat, electric light. Architect taking bids due April 12th.

Church, Hope and Charles streets, Coatesville, Pa. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Joseph's Roman Catholic Church, Coatesville, Pa. Stone, brick, 1 story and basement, 45x85 feet, slate roof. Architect taking new bids due April 8th at noon.

Goodhart Hall, Bryn Mawr, Pa. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owners, Bryn Mawr College, Bryn Mawr, Pa. Stone, cut stone, concrete block, 1 and 2 stories and basement, 108x64 feet, steam heat, electric light, metal lath, Vermont slate roof, maple and oak floors, flagstone. Architects taking bids due April 10th.

Hall Building, Scranton, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, Carpenters' Union, Thomas Flynn, 332 Lackawanna avenue, Scranton, Pa. Brick, steel, 2 stories and basement, 150x50 feet, slag roof, yellow pine and cement floors, metal lath, ornamental iron. Architect taking bids due April 14th.

Residence and Garage, Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, J. H. Hoffman, Doylestown, Pa. Hollow tile, stucco, 2½ stories, 40x30x18x22 feet, slate roof, hardwood and cement floors, hot water heat, electric light, tile work, metal lath. Architect taking bids due April 15th.

Store and Office (alts. and add.), Easton, Pa. Architects, Ruhe & Lange, 10 North Fifth street, Allentown, Pa. Owners, Farr Brothers, 739 Hamilton street, Allentown, Pa. Brick, 1 story, 30x79 feet, slag roof, hardwood floors, electric work. Architects taking bids due as soon as possible.

Warehouse, rear Lackawanna avenue, Scranton, Pa. Architects, E. H. Davis and George M. D. Lewis, Union Bank Building, Scranton. Owners, Scranton Dry Goods Co., Scranton,

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HEATING, EQUIPMENT AND POWER PIPING
ENGINEERS AND CONTRACTORS
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7038 GRAYS AVENUE, PHILADELPHIA

Pa. Brick, steel, 3 and 5 stories, 40x70 feet, slag roof, wood floors, hollow tile, electric light, metal lath, rolled steel sash, fire doors, iron stairs(heating, plumbing, electric, elevator and lighting fixtures reserved). Architects taking bids.

Sunday School, Scranton, Pa. Architect, Albert N. Dobbins, 1709 Arch street, Philadelphia. Owners, Elm Park Methodist Episcopal Church, Rev. W. M. Gray, Scranton, Pa. Stone. Ready for bids April 15th.

Passenger and Freight Station, Easton, Pa. Chief engineer, 143 Liberty street, New York City. Owners, Lehigh Valley Railroad Co., 143 Liberty street, New York City. Brick, reinforced concrete, steel, limestone, 1 and 2 stories, 365x65 feet (plumbing, heating, electric, elevator reserved), built-up roof, cement floors, metal lath, tile, marble and terrazzo work, rolled steel sash, waterproofing, ornamental iron work, bluestone, linoleum floors, area gratings. Engineer taking bids due April 30th.

Residence (alts. and add.), Newtown, Pa. Architect, Harry Parker, 1120 Locust street, Philadelphia. Owner, Charles J. Hoyt, Newtown, Pa. Architect taking bids due April 8th.

Residence (alts. and add.), Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, Thomas Moyles, 114 Park avenue, Wilkes-Barre, Pa. Brick, concrete, 2 stories and basement, 40x33 feet, slag roof, hardwood floors, steam heat, electric light. Architects taking bids.

Overhead Highway Bridge, Marcus Hook, Pa. Owners, Pennsylvania Railroad, care of Mr. Farnum, Broad Street Station, Philadelphia. Reinforced concrete, steel, 655 feet. Owners taking bids due April 8th.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Owners taking bids due April 20th at 10 A. M. Certified check required. Plans, $2.50 per set.

Allegheny County, A-3581, Richland Township, 4,355 feet. One course reinforced concrete. Certified check, $1,500.

Berks County, R-382-310, A-3825-3981, Heidelberg, Marion and Tulpehocken Townships, 37,382 feet. One course reinforced concrete. Certified check, $4,000.

Clarion County, R-214, A-3957-4082, Monroe and Piney Townships, 25,899 feet. One course reinforced concrete. Certified check, $3,500.

Dauphin County, R-129, Steelton Borough, 7,234 feet. One course reinforced concrete. Certified check, $2,000.

Franklin County, R-522, A-3744-3745, Guilford Township, 22,631 feet. One course reinforced concrete. Certified check, $3,500.

Mifflin County, R-35, Wayne Township, 11,466 feet. One course reinforced concrete. Certified check, $2,500.

Montgomery County, R-362, A-3916, Rockledge Borough, Abington Township, 8,000 feet. One course reinforced concrete. Certified check, $2,000.

Ssuquehanna County, R-296, A-4000, Clifford and Herrick Townships, Uniondale Borough, 15,286 feet. One course reinforced concrete. Certified check, $2,500.

Tioga County, A-3995, Elkland Borough, 2,598 feet. One course reinforced concrete. Certified check, $1,500.

Westmoreland County, R-181, A-3729, South and East Huntingdon Townships, 26,874 feet. One course reinforced concrete. Certified check, $3,500.

If your sales-talk is keyed to interest men who build it should occupy space every week in the "Guide," the only building news magazine this side of Manhattan Island.

Pennsylvania Contracts Awarded

Residence and Garage, Bader Woods, Noble, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Samuel Surman, Noble, Pa. Stone, 2½ stories, 58x30 feet, 20x20 feet, shingle roof, electric light, hot air heat, hardwood floors, cement work, tile work. Contract awarded H. F. Murphy, Willow Grove, Pa.

Church, Auditorium and Sunday School, Kingston, Pa., $54,033.50. Architect, H. G. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Church of Christ of Dorranceton, Rev. H. McGarvie, Kingston, Pa. Brick, 3 stories, 46x88 feet, asbestos shingle roof, hardwood floors (heating, plumbing and electric work reserved), tile work. Contract awarded to Herman Mailander, Wilkes-Barre, Pa. Heating and plumbing awarded to Hayden Evans, Wilkes-Barre, Pa. Electrical to T. W. McCollum, Kingston, Pa.

Residences (2) and Garage, Hillcrest road and Irvington road, Drexel Hill Park, Pa. Architect, Carl A. Ziegler, 1012 Walnut street, Philadelphia. Owner, E. J. Hugo, Drexel Hill Park, Pa. Stone, 2½ stories and basement, 37x28 feet, 43x29 feet, wing 11x10 feet, garage, 23x20 feet, hot water heat, electric light, tile work, ornamental iron work, shingle roof, oak and pine floors. Contract awarded to Thomas Conway, Jr., Corp., Drexel Hill Park, Pa.

Residence, Wynnewood, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Dr. E. H. Snader, Wynnewood, Pa. Stone, 2½ stories and basement, 36x40 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, mtal lath, ornamental iron work. Contract awarded Metzger, Fisher & White, Otis Building, Philadelphia.

School, Middletown Township, near Langhorne, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Middletown Township School Board, Joseph Mather, Langhorne, Pa. Brick, steel, 2 stories and basement, slag roof, maple floors, electric light, concrete work, 37x90 feet, steam heat, electric light. Contracts awarded: Hood & Gross, 1535 Chestnut street, Philadelphia. Heating and ventilating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia. Plumbing, Keystone Equipment Co., 1317 South Juniper street, Philadelphia. Electric, Louis W. Fitzgerald, Newtown, Pa.

Residences (5), Merion Golf Manor, Pa. Architects, Frank Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, hollow tile, cut stone, stucco, 2½ stories and basement, 67x27 feet, 47x51 feet, shingle roof, oak and pine floors, hollow tile, metal lath (plumbing, heating, electric work reserved), tile work, ornamental iron work. Contract awarded Benckert Const. Co., 6926 Market street, Philadelphia.

School, Aldan, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, School Board of Aldan, A. L. Rehner, Aldan, Pa. Brick, steel, 1 story, 143x116 feet (plumbing, heating, electric separate), slag roof, ornamental iron work, maple floors. Contracts awarded: N. W. Bryan, 10 South Eighteenth street, Philadelphia. Electric, Merit Electric Co., 630 Race street, Philadelphia. Heating, Hughes Brothers, Upper Darby, Pa. Plumbing, Wilson Brothers, Collingdale, Pa.

Residence, Whitemarsh, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, Franklin Spencer Edmunds, Packard Building, Philadelphia. Contract awarded F. G. English, 1610 North Carlisle street, Philadelphia.

Store and Office (alts. and add.), Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Brick, steel, 2 stories, 114x22 feet, slag and slate roof, hardwood floors. Contract awarded to J. W. Thomas, Wilkes-Barre, Pa.

Road Work, Pennsylvania. Owners, Department of Highways of Pennsylvania, Harrisburg, Pa.

Lehigh County, R-175, A-3921, Whitehall and North Whitehall Townships. Contract awarded to D. L. Risser, $117,297.70.

Dauphin County, A-3855, East Hanover Township. Contract awarded to Swanger & White, Lebanon, Pa., $100,844.

Clearfield-Center Counties, R-219, Section 3, Cooper and Snow Shoe Township. Contract awarded to Edwards-Dunn Co., Inc., Greensburg, $116,747.12.

Delaware County, R-133, Sec. 5, Haverford Township, 10,797 feet. One course reinforced concrete. Contract awarded to Ambler-Davis Co., Harrison Building, Philadelphia.

New Jersey Construction News

Apartment House, Store and Garages (32), Evergreen and Bayard avenues, Pitman, N. J., $50,000. Architects, T. B. Lippincott and C. F. Schaff, 11 South Sixteenth street, Philadelphia. Owners, P. Clark, Vernon D. Clark, J. Howard Morris, Pitman National Bank, Pitman, N. J. Hollow tile, stucco, brick, 3 stories and basement, 72 apartments, basement stores. Sketches drawn. Work contemplated in 3 units.

Y. M. C. A. Building (colored), Arctic and Disston avenues, Atlantic City, N. J. Architect, J. Vaughan Mathis, Guarantee Trust Building, Atlantic City. Owners, Y. M. C. A. of Atlantic City, A. E. Chamberlain, 1315 Pacific avenue, Atlantic City, N. J. Brick. Plans in progress.

School, Tabor Tract, Hamilton Township, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton. Owners, Hamilton Township School Board, W. A. Robinson, District Clerk, Greenwood School, Trenton, N. J. Brick, steel, 2 stories and basement, 146x128 feet, slag roof, maple floors, steam heat, electric light. Plans in progress.

Court House (add.), Cape May Court House, N. J. Architects, Edwards & Green, Van Russ Building, Camden, N. J. Owners, Board of Chosen Freeholders of Cape May County, Cape May Court House, N. J. Fireproof, 2 stories, 132x142 feet, semi-fireproof roof, concrete floors, hollow tile, roof ventilators, waterproofing and dampproofing, ornamental iron work, iron stairs, kalamein doors, rolled steel skylights, rolled steel sash, metal lath, steam heat, electric light. Architects will be ready for bids in one week.

Fire Headquarters Shop and Water Tower, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, Perry street, Trenton, N. J. Brick, steel, 3, 2 and 5 stories, 83x125 feet, 72x156 feet, Barrett roof, concrete, wood block, rubber tile and linoleum floors, metal window guards, hollow tile, terra cotta and limestone, ornamental iron, iron stairs, floor hardener, brass and bronze, hollow metal trim, fire doors, steel sash, tile work, metal lath, steam heat, electric light. Owners ready for bids due April 23rd.

Single Residences (3), Corinthian avenue, First street and St. James Place, Ocean City, N. J. Architect, George S. Idell, Corn Exchange Building, Philadelphia. Owners, Dubois & Nulty, Inc., Ninth and Central avenue, Ocean City. Concrete foundations, hollow

tile, stucco, 2 stories, 24x67 feet, each garage 18x22 feet, hot water heat, electric light, oil burning, red Spanish tile roof, tile, on all first floors, hardwood floors, metal lath, tile baths, brick chimneys and fireplaces, cement work. Plans completed. Owners will build.

Pier and Auditorium, Ventnor, N. J. Architect, Seward G. Dobbins, Segal Building, Atlantic City, N. J. Owners, City of Ventnor, Charles E. Reppetto, Ventnor, N. J. Frame, stucco, 1 story, 72x100 feet and 200x100 feet, tile roof, hardwood floors, metal partitions, tile work, electric light. Owners taking bids due April 12th.

Residence, 127 North Virginia avenue, Atlantic City, N. J. Architect, Benjamin Brown, Guarantee Trust Building, Atlantic City. Owner, Dr. Charles A. McGuire, 28 North Delaware avenue, Atlantic City. Cinder block, stucco, 2 stories, 19x60 fet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids due in two weeks.

School, Absecon, N. J. Architect, W. Vaughn Mathis, Atlantic City, N. J. Owners, School Board of Absecon, Absecon, N. J. Brick, cut stone, steel. Owners taking bids due April 14th.

Physics Building, New Brunswick, N. J. Architect, A. B. Mills, Division of Architecture, Trenton, N. J. Owners, State of New Jersey, Department of Institutions and Agencies, Trenton, N. J. Brick, concrete, steel, 3 stories and basement, 140x51 feet, tile and green slate roof, mastic and cement floors, hollow tile. Lowest bidders: George B. Rule, New tile. Contract awarded to George B. Rule, New Brunswick, N. J., $177,000; Plumbing, Bruns, Lane & Richardson, New Brunswick, N. J., $10,941. Heating, J. T. Evans, Wilkes-Barre, Pa., $17,386.50. Electric, Beaver Eng. Co., Newark, N. J., $29,394.

Bridge, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Double leaf deck girder simple trunnion bascule bridge over Cooper River on entrance road to Delaware River Bridge, Camden, N. J. Contract awarded to Michael Staub & Kolyn Const. Co., Trenton, N. J., $469,990.

Residences (2), 307-09 North Forty-first street, Camden, N. J., $6,500. Architect, private plans. Owner, E. E. Stevens, 308 North Forty-third street, Camden, N. J. Frame, 2 stories, 14x38 feet, slag roof, pine floors, hot air heat, electric light. Permit granted.

Residence, 337 Boye street, Camden, N. J., $4,500. Architect, private plans. Owners, William R. Hosier & Sons, 101 North Twenty-fifth street, Camden, N. J. Block, 1½ stories, 24x41 feet, asphalt shingle roof, hot water heat, electric light. Permit granted.

Residence, 3031 Fenwick road, Camden, N. J., $3,500. Architect, private plans. Owner, Richard Goudolf, 3035 Tuckahoe road, Camden, N. J. Brick, 2 stories, 16x28 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Road Construction, New Jersey. Owners, Board of Chosen Freeholders of Monmouth County, Bryant B. Newcomb, Director, Freehold, N. J. Reconstruction of Red Bank-Holmdel road, No. 44, Sec. 2, Middleton and Holmdel Townships, Monmouth County, concrete type C surface on the present foundation. Certified check 10 per cent. required. Deposit of $10 required. Owners taking bids due at Court House, Freehold, N. J., April 21st, at 11 A. M.

New Jersey Contracts Awarded

Residences and Stores (2), 1200-02 Jackson street, Camden, N. J., $10,000. Architect, H. A. Allen, 526 Stevens street, Camden, N. J. Owner, X. Jagodzinski, 1476 Mt. Ephraim avenue, Camden, N. J. Brick, 2 stories, 15x60 feet and 16x63 feet, slag roof, electric work. Contract awarded to Adam Kemp, 1634 Pulaski street, Camden, N. J.

Residences (2), 2872-74 Clinton street, Camden, N. J., $10,000. Architect, Ernest L. Ergood, 320 Market street, Camden, N. J. Owners, R. A. Phillips Co., 1169 Cooper street, Camden, N. J. Brick, 2 stories, 16x43 feet, slag roof, hot water heat, electric work. Contract awarded to Harry Brown, 514 Lawrence street, Camden, N. J.

School, Lindenwold, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, Clementon Township School Board, G. W. Mayberry, Laurel Springs, N. J. Brick, reinforced concrete, limestone, 2 stories, 50x84 feet, slag roof, maple and cement floors, hollow tile, safety treads, ornamental iron, metal lath (heating, plumbing, electric separate), bond. Contract awarded to Fred Lange, Audubon, N. J. Heating to Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $3,294. Plumbing to Charles Leupold, Clementon, N. J., $322. Electric to Franks & Sweeney, Camden, N. J., $700.

Store and Apartment (alts.), Trenton, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, N. A. K. Bugbee, 206 East Hanover street, Trenton, N. J. General alterations, steam heat, yellow pine floors, plate glass, copper work. Contract awarded to Fred Parker, 327 Calhoun street, Trenton, N. J.

Residence (add.), 1211-13 Haddon avenue, Camden, N. J., $8,200. Architect, private plans. Owner, Dr. A. H. Comfort, 1200 Haddon avenue, Camden, N. J. Brick, one and two stories, 20x50 feet, 7x12 feet, slag roof, electric work. Contract awarded to M. W. Cooperson, Sixth and Jackson streets, Camden, N. J.

Residence, 916 North Thirty-first street, Camden, N. J., $4,200. Architect, private plans. Owner, Theo. J. Wegman, 256 Merchantville avenue, Camden, N. J. Frame. 2½ stories, 20x24 feet, composition shingle roof, pine floors, hot air heat, electric light. Contract awarded to W. A. Wegman, 604 Federal street, Camden, N. J.

Bank, Salem, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, Salem National Bank and Trust Co., care of architect. Brick, reinforced concrete, cut stone, steel, four stories and basement, 48x100 feet. Contract awarded to H. R. Dodge, 223 Broad street, Elmer, N. J.

Residences (9) and Residence and Store (1), 1764-1782 Norris street, Camden, N. J., $40,300. Architect, Harold A. Allen, 536 Stevens street, Camden, N. . Owners, Cross Bros., Mt. Ephraim and Woodlynne avenues, Camden, N. J. Brick, two stories, 15x37 feet 8 inches, slag roof, pine floors, hot water heat, electric light. Contract awarded to Michael Lapan, 3034 Clifford street, Philadelphia.

Residence and Garage, 1705 Park Boulevard, Camden, N. J., $12,000. Architect, private plans. Owner, S. Rosenberg, Camden, N. J. Brick and block, two stories, 20x60 feet, garage 1 story, 18x18½ feet slag and tile roof, hardwood, pine and cement floors, hot water heat, electric light. Contract awarded to G. H. Ratcliffe, 1130 Haddon avenue, Camden, N. J.

Residences (2), 1472-74 Ormand street, Camden, N. J., $9,000. Architect, A. B. Gill, 328

BUILDERS

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Market street, Camden, N. J. Owner, Joseph Wachstein, 1029 Atlantic avenue, Camden, N. J. Brick, two stories, 14x44 feet, slag roof, hot water heat, electric light. Contract awarded to Chas. M. Bernhardt, Blackwood, N. J.

Miscellaneous Construction News

Botany and Zoology Building, Wellsley, Mass. Archtects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Wellsley College, Wellsley, Mass. Brick, stone, steel, concrete, 4 stories. Plans completed. Architects ready for bids.

Manufacturing Building, 4617-25 Flushng street, Borough of Queens, N. Y. Architects, The Ballinger Co., 100 East 42nd street, New York. Owners, M. O'Neil Co., 25 Cliff street, New York City. Brick, steel, two stories, 100 x400 feet (plumbing, heating, electric, elevator, traveling cranes (2) separate), steam heat, slag roof, cement and wood floors, elevator, rolled steel sash. Architects taking bids at New York office, due April 13th before 11 A. M.

Miscellaneous Contracts Awarded

Manufacturing Building, East 138th street, Mott and Walton avenues, New York City. Architects, The Ballinger Co., 100 East 42nd street, New York City. Owners, Andrea Holding Corp., Adran avenue and 225th street, New York. Brick, four stories. Contract awarded White Construction Co., 95 Madison avenue, Philadelphia.

The Philadelphia office of the Economy Concrete Co., Louis F. Nichols, representative, has moved from the Flanders Building to 1700 Walnut street, Philadelphia.

NOTABLE ARCHITECTURAL EXHIBITION WILL BE HELD IN THE GALLERIES OF THE ART ALLIANCE

Philadelphia architects and many others in New York, Boston and elsewhere are preparing special drawings and other exhibits for the Twenty-ninth Annual Architectural Exhibition of Philadelphia which will be a worthy successor to that held last year in the partly competed Art Museum.

The exhibition this year will be in the Galleries of the Art Alliance, 1823 Walnut Street. It will be held by the Philadelphia Chapter of the American Institute of Architects and the T-Square Club of Philadelphia in colaboration with The Sculpture Committee of the Art Alliance from May 9 until May 31st, 1926, inclusive, and will be open free to the public from 11 A.M. to 9 P. M. weekdays and from 1 P. M. to 6 P. M. Sundays.

Architectural Exhibits will consist of drawings, models and photographs of proposed or executed work; of structural, decorative and landscape architecture, academic drawings; sketches and paintings of decorative subjects. Groups consisting of drawings, models and cartoons, illustrating in collaboration the architectural, sculptural and decorative scheme of a single work will be patricularly featured.

The Jury of Selection consists of Clarence C. Zantzinger, Charles Z. Klauder and Paul A. Davis, 3rd, the latter of whom is the President of the Philadelphia Chapter.

THREE LECTURES ON MODERN AMERICAN. ARCHITECTURE AT THE ACADEMY OF MUSIC

Announcement is made by the Directors of The University Extension Society, to whom has been entrusted the management of THE JAYNE MEMORIAL LECTURES, founded by The University Extension Society and the friends of the late Henry LaBarre Jayne, in his memory that the second series of lectures will be in the Academy of Music, on Friday evenings, April 16th, 23rd and 30th.

These will be delivered by George H. Edgell, Dean of the Faculty of Architecture, and Chairman of the Council of the School of Architecture, Harvard University. One of America's distinctive contributions to civilization has been its leadership, during the last quarter century, in the teaching and practice of architecture. It is this which Dean Edgell will discuss in his lectures, entitled "Modern American Architecture.'

The first lecture will deal with the current theories of architecture and the traditions and development of American Architecture. Illustrations will show the monuments of the past which affect the architecture of today. The second lecture will treat of domestic, academic and ecclesiastic architecture of America today, and the third will cover the public and monumental present day architecture and show a wide range of illustrations including the modern development of commercial buildings.

The lectures will be fully illustrated by lantern slides and will be interesting and instructive to architects, builders and all others allied with the construction industry and to the lay public. All are invited and as admission to the Academy of Music may be had only by tickets, the Jayne Memorial Lectures, 1617 Land Title Building, will without charge, furnish tickets, to the limit of capacity, in the order of application.

METAL LATH NEARLY 100% SIMPLIFIED, REPORT SHOWS

Reports that the production of metal lath under Simplified Practice Recommendations which became effective on January 1, 1924, had been 99 per cent in conformity with the sizes recommended as standard were made at a meeting of manufacturers of metal lath today in the Department of Commerce under the auspices of the Division of Simpified Practice. The industry involves more than 40,000 tons of steel annually. ffl ffl

The meeting was held to consider possible revisions of the program already in effect, and the manufacturers present represented more than 75 per cent of the production of the country. H. R. Colwell of the Division presided.

On behalf of the Simplification Committee of the Associated Metal Lath Manufacturers, Walter C. Congor of Truscon Steel Co., Youngstown, Ohio, stated that the industry had made important progress since the Simplified Practice Recommendations became effective. Wharton Clay, Commissioner of the Association, has estimated that the dealers, distributors, and the producers have been relieved of an investment of more than $2,000,000 which represents stocks formerly carried in the 125 sizes and weights formerly made.

The meeting resulted in the appointment of a committee comprising of W. C. Conger of Youngstown, John Bowditch, Jr., of the Youngstown Pressed Steel Co., Warren, Ohio, representing manufacurers; H. R. Eastwood of the Southern Building & Supply Co., Washington, and James W. Pearse of the Pearse Fireproofing Co., Philadelphia, representing distributors; LeRoy Kern of the American Institute of Architects, J. H. Krafft of Krafft-Murphy Co., Washington, W. J. McSorley of the Building Trades Division of the American Federation of Labor, and a representative of the International Association of Plastering Contractors representing consumers. This meeting will present specific recommendations as to further reductions at a meeting which is to be held on May 26th, and these recommendations will be submitted to the entire industry for acceptance.

The attendance was as follows: W. S. Hays, National Council for Better Plastering, Philadelphia, Pa.; Mahlon D. Scott, Consolidated Expanded Metal Co., Philadelphia; W. C. Conger, Youngstown, Ohio; E. R. Stewart, North Western Expanded Metal Co., Chicago, Ill.; John Bowditch, Jr., Warren, Ohio; Thomas R. Herbest, Jr., Consolidated Expanded Metal Co., Bradock, Pa.; W. B. Turner, General Fireproofing Building Products, Youngstown, Ohio; and representatives of the Division of Simplified Practice.

It is surely an injustice to your workmen as well as a source of loss to yourself to supply poor tools in your shop equipment. No man can do anything approaching good work with tools that take the edge off enthusiasm. In shop management, as in most things, details are the whole cloth. Tools are like men. They do good work or they do not, according to the character which they possess. Character in tools is a matter of good materials, expert making and correct design.

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL IRON WORK
ker City Art Metal Works,
2445 N. Second St., Phila.

ARTESIAN WELLS.
lpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
bins, Chas. H., Co. .....1729 Sansom St., Phila.
ber, F., Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
e Print Shop.....1520 Sansom St., Phila.
bins, Chas. H., Co.....1729 Sansom St., Phila.
ber, F., Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER.
e Print Shop.....1520 Sansom St., Phila.
bins, Chas. H., Co. .....1729 Sansom St., Phila.
ber, F., Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS.
ezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
, Janeway, & Co..Real Estate Trust Bldg., Phila.

BRICK (Face, Common, Paving).
cham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
chell Bros. .....2125 Race St., Phila.
ser, M. J. .....4238 Old York Road, Phila.
eph Rotornado.....4740 Milnor St., Phila.

BUILDERS' SUPPLIES.
vice Supply Corporation,
20th and Venango Sts., Phila.
Van Sciver Corporation,
The Parkway at 24th St., Phila.
st Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
skey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
eland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
Van Sciver Corporation.
The Parkway at 24th St., Phila.
st Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
auro, John .....55 E. Mermaid Lane, Phila.
sch, Wm. F. .....Narberth, Pa.
siah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
ezey, John R. Glenwood Ave. w. of 22nd St., Phila.

COLUMNS (Metal).
rce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE SEWER PIPE.
udsburg Septic Tank Co..328 Chestnut St., Phila

CONCRETE WORK.
sch, Wm. F. .....Narberth, Pa.
siah, Frederick.. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
itt, Paul J. .....1101 S. 2nd St., Phila.
T. Ward Co. .....617 Filbert St., Phila.
vice Supply Corporation,
20th and Venango Sts., Phila.

CORK FLOORING
ezey, John R. Glenwood Ave. w. of 22nd St., Phila.

CURTIS WOODWORK.
lingham Co ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
lding News Pub. Co. ...1530 Chestnut St., Phila.

DAMPPROOFING.
i-Hydro Waterproofing Co.,
24th and Parkway, Phila.
rnett Bingswanger.....829 N. 3rd St., Phila.
crete Waterproof Paint Co..829 N. 3rd St., Phila.
ster Builders Co., ...Otis Bldg., Phila.
scon Laboratories.....1505 Race St., Phila.

DOOR BEDS
rphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS.
bbins, Chas. H., Co. .....1729 Sansom St., Phila.
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ll, J. H., Co. .....1315 Cherry St., Phila.

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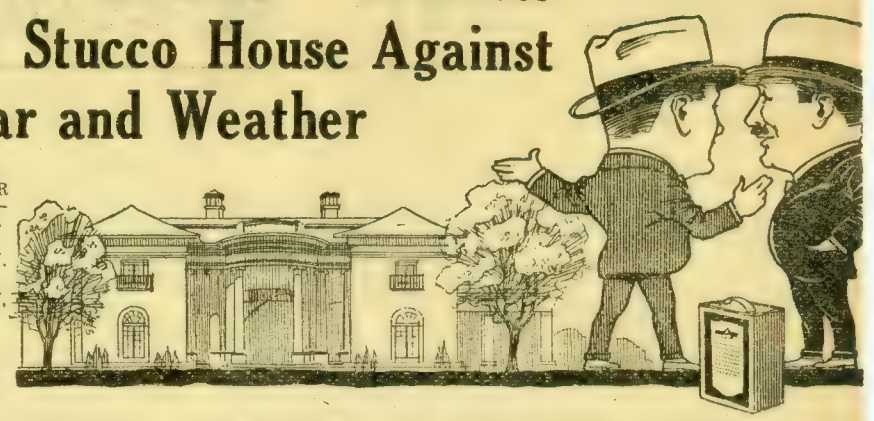
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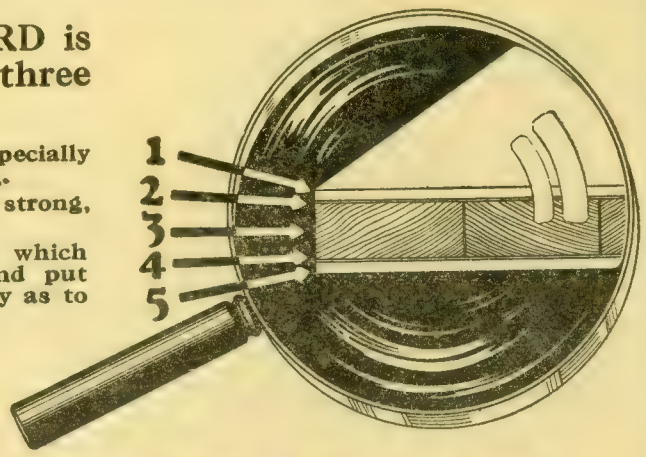
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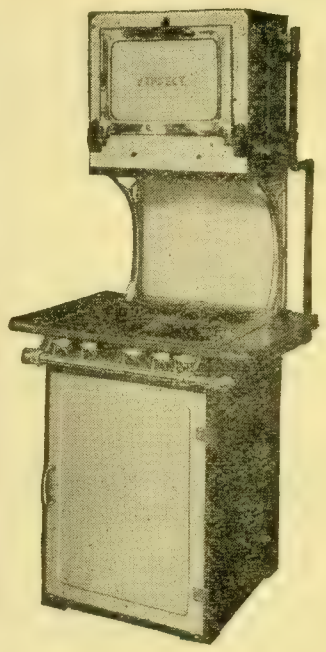
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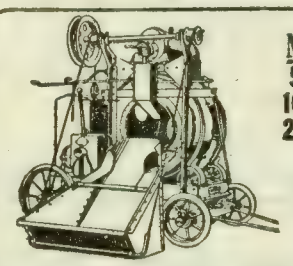
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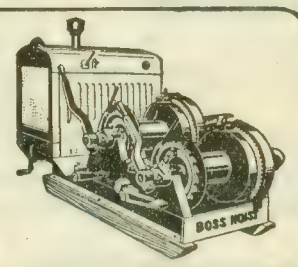
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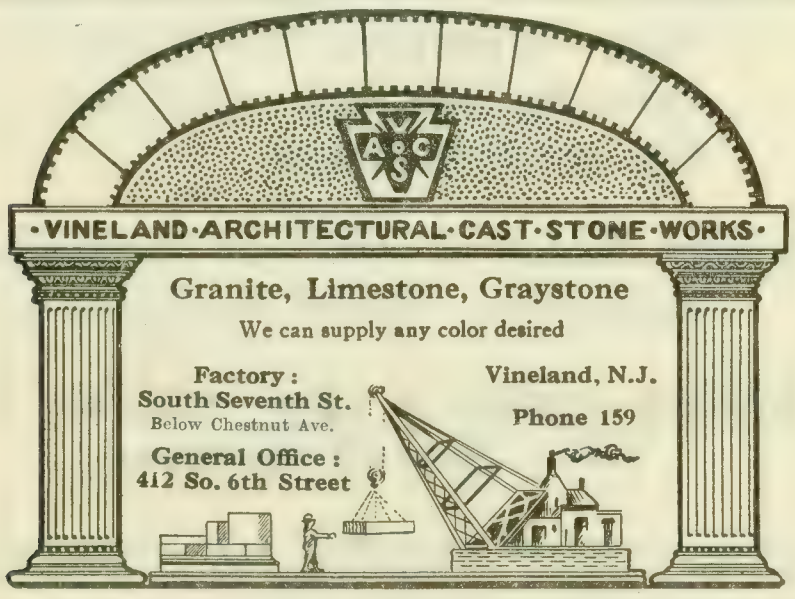
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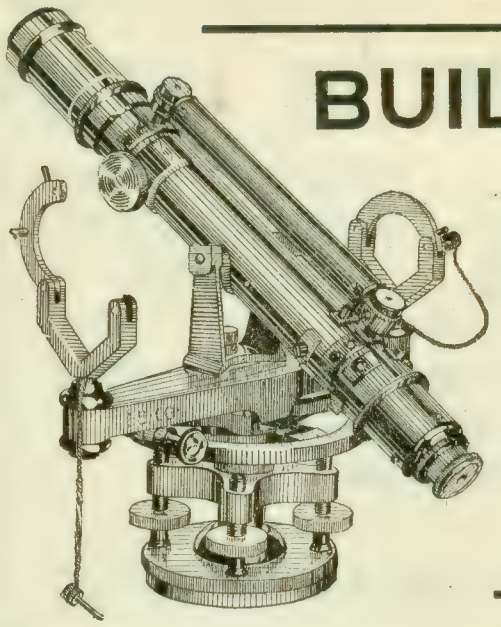
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residences (10 detached), Roland Park, near Cheltenham, Philadelphia. Architect, private plans. Owners, Conlin, McGill & Parker, 4401 Germantown avenue, Philadelphia. Stone, stucco, 2½ stories and basement, 19x45 feet, tile roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Owners will build. Ready for sub-bids in a month.

Mill Building, Fifth and Courtland streets, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Gotham Silk Hosiery Co., 389 Fifth avenue, New York City, also on premises. Brick, steel, concrete. Plans in progress.

Residences (35) (semi-detached), Dorset street and Crittenden street. Architect, private plans. Owner, John Uber, Stenton avenue and Mt. Pleasant avenue, Philadelphia. Stone, stucco, 2 stories and basement, 19x45 feet, tile roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Owner will build. Ready for sub-bids in June. Plans in progress.

Residence and Garage, Norman lane, Chestnut Hill, Pa. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owner, John H. Fassett, 139 Carpenter street, Germantown, Pa. Architect selected. Too early for details.

Apartment House, Penn street, near Baynton street, Philadelphia. Architect, J. E. Lowry, Land Title Building, Philadelphia. Owner, Glenn O. Martion, 1721 Cayuga street, Philadelphia. Brick, 4 stories, 65x90 feet, tile roof, hardwood floors, vacuum heat, electric light, tile work, plumbing. Plans in progress. Too early for details.

Dyeing and Cleaning House, South side Lehigh avenue, East of Thirty-fourth street, Philadelphia. Engineer, S. G. Matthews, 2016 East Lippincott street, Philadelphia. Owners, Bornot, Inc., Seventeenth and Fairmount avenue, Philadelphia. Brick, steel, 1 story, 213x268 feet, slag roof, cement floor, electric light. Plans in progress.

Bank and Office Building, Broad, Walnut street and Sansom street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Fidelity Trust Co., W. P. Gest, president, Broad and Chestnut streets, Philadelphia. Brick, granite, reinforced concrete, carved stone, marble, steel, tile and marble work, metal lath, iron work, 24 stories, 229x175 feet. Plans in progress. Work to start March, 1927.

Y. M. C. A. Building (add.), Greene street, North of Chelten avenue, Philadelphia, $650,000. Architect, not yet selected. Owners, Germantown Y. M. C. A., W. H. Crown, general secretary, 5849 Germantown avenue. Brick, cut stone, steel, 4 stories and basement, 90x250 feet. Work contemplated.

Factory, Front street below Norris street, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, M. Kardon Paper Box Co., Morris Kardon, president, 224 Pine street. Reinforced concrete, brick, steel, 3 stories and basement, 50x75 feet, slag roof, cement floors. Plans in progress.

Apartment House, 5408-12 Chester avenue, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, Babis & Bender Const. Co., Schubert Building, Philadelphia. Brick, steel, limestone, 4 stories, 96x180 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, tile and marble work, hollow metal skylights, kalamein doors, cut stone. Plans about completed. Owners will build and will be ready for sub-bids in a few days.

Stores (3) and Dwellings, Stenton avenue, Sidney street, Philadelphia. Architect, private plans. Owner, John Uber, Stenton avenue and Mt. Pleasant avenue, Chestnut Hill. Brick, 2 stories and basement, 16x50 feet each, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Owner will build. Ready for bids in three weeks.

Residences (142) and Stores (4), Luzerne and N streets, Philadelphia. Architect, private plans. Owners, Kerr & Witty, Pratt and Hawthorne streets, Philadelphia. Brick, 2 stories and basement, 16x35 feet, slag roof, oak and pine floors, hot water heat, electric light. Owners taking sub-bids.

Residences (48), Orland street, between Fifteenth and Sixteenth streets, Philadelphia. Architect, private plans. Owners, W. Fischer's Sons, Broad and York road, Philadelphia. Brick, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, ornamental

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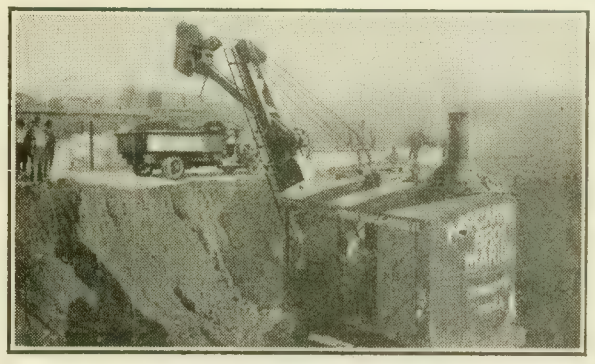
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Buildings Nos. 9, 10, 11, Elmwood avenue, between Sixty-eighth and Seventieth streets, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, General Electric Co., Witherspoon Building, Philadelphia. Brick, cut stone, steel (heating, electric and elevators reserved), sprinklers, plumbing, railroad tracks, tanks and tank tower, grating floors in pipe shaft reserved), gypsum slag roof, concrete floors, hollow tile, safety treads, roof ventilators, metal window guards, waterproofing and dampproofing, ornamental iron work, floor hardener, iron stairs, fire, kalamein and hollow metal doors, rolled steel sash and skylights, tile, marble and terrazzo work, metal lath, rolling steel doors, linoleum floors, wood block floors, vault doors, granite, tin-clad doors. Building No. 10, 7 stories, 601x106 feet. Building No. 11, 7 stories, 103x74 feet. Building No. 9, 100x75 feet. Architects taking bids due April 22nd.

Fire Station, Howard and Columbia avenue, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Safety, Bureau of Fire, 215 City Hall. Brick, limestone, steel, reinforced concrete, 2 stories and basement, 78x38 feet (plumbing, heating, electric separate), slag roof, pine, cement and composition floors, painting and glazing, rolled steel skylights, bond, ornamental iron work, steel lockers, area gratings, waterproofing. Owners taking bids due April 20th.

New Fire Tower-Residence (alts. and add.), Fifty-fourth and Vine streets, Philadelphia. Architect, George I. Lovatt, 223 South Sydenham street, Philadelphia. Owners, Our Lady of Victory Parish, Rev. F. L. Carr, on premises. Brick, steel, electric light, tile work, ornamental iron work, demolition, painting and glazing, plumbing, concrete (plain and reinforced concrete), metal doors, carpentry and mill work, pine floors, tile floors, stair work, plastering, non-fading slate tin roof, painting and glazing, hardwood floors, electric work, composition floors. Architect taking bids due April 19th.

Patrol Garage, 318 Florist street, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Safety, Bureau of Police, 215 City Hall. Brick, reinforced concrete, steel, 1 story, 44x34 feet (plumbing, heating, electric separate), slag roof, pine and cement floors, painting and glazing, metal lath, bond, ornamental iron work, demolition, bluestone, steel doors. Owners taking bids due April 20th.

Store Building (alts.), Thirteenth and Chancellor streets, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Jules Junker, on premises. Demolition, carpentry and mill work, steel and iron work, concrete, granite, plastering, painting and glazing, terra cotta, metal lath, tile and marble work, kalamein doors. Architect taking bids due April 16th, 2 P. M.

Apartment House, Oakland and Oxford streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, George T. Sales, Liberty Building, Philadelphia. Reinforced concrete, brick, 3 stories, irregular size. Architects will take bids April 22nd.

Sunday School and Parsonage, Rising Sun avenue and Seventh street, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Erie Avenue Methodist Episcopal Church, on premises. Stone, brick, reinforced concrete, 2½ stories and basement, 80x20 feet, 76x20 feet, composition, slate and slag roof, pine and cement floors, painting and glazing, plumbing, steam heat, electric light, metal lath, tile work, ornamental iron work, mineral floors. Architect taking bids due April 19th.

Apartment House, 4018 Walnut street, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, George T. Sales, Liberty Building, Philadelphia. Reinforced concrete, brick, steel, 6 stories and basement. Architects will take bids due April 22nd.

Garage and Service Station, Farragut and Walnut streets, Philadelphia. Architects, H. Rex Stackhouse and W. W. Donohue, 1120 Locust street, Philadelphia. Owner, name withheld. Garage, brick, 1½ stories, 25x100 feet. Service station, brick, steel, 20x100 feet, 1 story, slag and tile roof, cement floors, Peele doors, steam heat, electric light, mechanical greasing and washing machinery (plumbing, heating separate bids). Architects taking bids due April 16th.

Medico-Chirurgical College, Nineteenth and Lombard streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Brick, granite, cast stone, steel, 9 stories and basement, 136x64 feet, 60x54 feet, asphalt roof, cement and linoleum floors, elevators, metal lath, tile and terrazzo work, kalamein and hollow metal doors, bond, ornamental iron work, painting and glazing, cork insulation, cinder block, casement sash, metal partitions, lockers. Architect taking bids due April 20th.

Store Building (alts. and add.), 1501 Germantown avenue, Philadelphia. Architect, Edwin L. Rothschild, Bankers' Trust Buildng,

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Philadelphia. Owners, Jacobs, Inc., on premises. Brick, 3 stories, 100x30 feet, slag roof, pine floors, elevators, structural steel, copper bars, plate glass, rolled steel doors, marble work, steam heat, electric light. Bids due as soon as possible.

Jackson Street Pier, No. 80, South Wharves, Philadelphia. Owners, Department of Wharves, Docks and Ferries, 211 Pier, No. 4, South Wharves. Construction with incidental work. Deposit $25 refunded. Certified check, 5 per cent. of bid. Owners taking bids due April 21st at noon.

Gate Buildings (2), Specification 5196, Navy Yard, Philadelphia. Owners, Bureau of Yards and Docks, Navy Department, Washington, D. C. Concrete piles and caps, brick, hollow tile, plain and reinforced concrete, stone, steel, iron, steel toilet partitions, built-up roof, sheet metal work, terrazzo and slate work, sash doors, hardware, painting, glazing, plumbing, heating and electric system. Owners taking bids due April 23rd, 11 A. M. Deposit $20, refunded.

Supplies, Philadelphia. Purchasing agent, E. J. Lafferty, 312 City Hall, taking bids due April 20th at noon on limestone dust filler. Certified check 5 per cent.

Service Station, Southwest Corner Vine and Bonsall streets, Philadelphia, $90,000. Architect, private plans. Owner, Edward M. Harris, 2220 Chestnut street, Philadelphia. Brick, 1 story, 145x267 feet, slag roof, cement floors, electric lighting. Permit granted.

Stores (4) and Garage, Thirty-fifth street, Allegheny avenue and Westmoreland street, $54,500 total. Architect, private plans. Owner, Gartano Spina, 5853 North Camac street, Philadelphia. Brick, 1 story, 56x38 feet, 18x38 feet, garage, 1 story, 130x143 feet, slag roof, cement floors, electric light. Permit granted.

Ice Storage Building, Southwest Corner Sedgley and Gordon streets, $8,000. Architect, C. Leslie Weir, 41 East Forty-second street, New York City. Owners, American Ice Co., 121 North Broad street, New York. Brick, 1 story, 25x39 feet, slag roof, cement floors, iron work. Permit granted.

Residences (2), North side Stanwood street, West of Frontenac, $5,000. Architect, private plans. Owner, Peter Hardt, Jr., 7403 Claridge street, Philadelphia. Frame, 2 stories, 16x34 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (2), 8700-02 Holstein avenue, Philadelphia, $4,000 each. Architect, private plans. Owner, Robert B. Heath, 3217 South Eighty-seventh street, Philadelphia. Brick, 2 stories, 14x36 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Garage, Eighth and Schiller streets, Philadelphia, $4,000. Architect, private plans. Owner, W. F. Chapman, 1805 West Venango street, Philadelphia. Brick, 1 story, 72 feet 6 inches x 17 feet, slag roof, cement floors, electric work. Permit granted.

Apartment, 4418 Osage avenue, Philadelphia, $60,000. Owner, Louis Elgart, 5312 Berks street, Philadelphia. Brick, 4 stories, 18x98 feet, 50x12 feet, slag roof, hardwood and pine floors, electric light, tile work. Permit granted.

. Residences (29), Sixteenth and Sixty-fifth avenue, Philadelphia, $149,000. Architect, private plans. Owner, Joseph Cutter, 1811 North Seventh street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (2), 4756-58 Gardner street, Philadelphia, $7,600 total. Architect, private plans. Owner, I. Bogucki, 2414 Orthodox street, Philadelphia. Brick, 2 stories, 14x40 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Garage, East side Ninth street, North of Ritner street, Philadelphia, $6,500. Architect, private plans. Owners, E. & E. Cramer, 846 East Moyamensing avenue, Philadelphia. Brick, 1 story, 17x75 feet, 18x125 feet, slag roof, cement floors, electric light. Permit granted.

Residence (add. and alts.), Southeast Corner Forty-third and Spruce streets, $5,000. Architect, private plans. Owner, H. D. Rose, 1427 Nedro avenue, Philadelphia. Brick, 1 story add., 24x10 feet, general alterations. Permit granted.

Apartment House (alts.), 4527 Walnut street, Philadelphia, $3,000. Architect, private plans. Owner, E. E. Bratton, on premises. General alterations. Permit granted.

Garage, 38 East Walnut lane, Philadelphia, $2,000. Architect, private plans. Owner, A. Comley, on premises. Brick, 1 story, 60x33 feet, slag roof, cement floors. Permit granted.

Residences (14) (2), 1058-60 Wakeling street, and (12) Castor road, between Pratt and Bridge streets, Philadelphia, $7,500 each. Owner, J. D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Office, Show Room and Garage, Germantown avenue and Meehan street, $19,000. Architect, private plans. Owners, The Chaitt Co., Inc., 6225 Wayne avenue, Philadelphia. Brick, 2 stories, 27x62 feet, garage, 1 story, 85x82 feet, slag roof, cement floors, hot water heat, electric light. Permit granted.

Residences (8), 4602-16 North Fifth street, Philadelphia, $6,000 each. Architect, private plans. Owner, Benjamin Sacks, 5913 Chancellor street, Philadelphia. Brick, 2 stories, 15x35 feet, 11x23 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Apartment House, 3328 Haverford avenue, Philadelphia, $4,000. Architect, private plans. Owner, Alexander P. Lucker, 6053 Pine street, Philadelphia. Brick, 3 stories, 18x50 feet, hot water heat, electric light, slag roof. Permit granted.

Residences (16), Orthodox, Miller, Gillingham and Belgrade streets, $75,000. Architect, private plans. Owner, Ralph R. Stearly, 4618 Frankford avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (4), North side Howell street, West of Walker street, $4,000 each. Architect, private plans. Owner, Albert Huber, 3028 Howell street, Philadelphia. Brick, 2 stories, 16x37 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences and Stores (2), East side Tackawanna street, North of Orthodox, $3,500 each. Architect, private plans. Owner, James Winstone, 1839 Herbert street, Philadelphia. Brick, 2 stories, 14x37 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

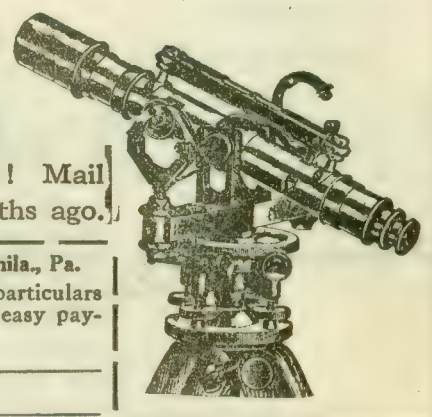
Sand House, South side Hunting Park avenue, East Wissahickon avenue, $3,000. Owners, Philadelphia Rapid Transit Co., 810 Dauphin street, Philadelphia. Permit granted.

Miscellaneous School Work, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Low bidders: Eighty-second and Lyons avenue, Philadelphia, Nelson-Pedley Const. Co., Corn Exchange Building, Philadelphia, $463,452; John McShain, 1713 Sansom street, Philadelphia, $464,987; plumbing, Thompson Brothers, 512 Buttonwood street, Philadelphia, $21,980; heating, William Ambrose, Levering and Umbria streets, Philadelphia, $43,989; electric, Walker & Kepler, 531 Chestnut street, Philadelphia, $18,583; ventilating, Mellon & Co., 4415 Ludlow street, Philadelphia, $2,680. School, Seventeenth and Folsom streets; McCloskey Co., Inc., 1620 Thompson street, Philadelphia, $329,000; Nelson-Pedley Const., Corn Exchange Building, Philadelphia, $331,342; plumbing, William Ambrose, Levering and Umbria streets, Philadelphia, $12,980; heating, McClintock & Co., 5608 Race street, Philadelphia, $29,495; electric, Harry S. Mitchell, 1337 McFerran street, Philadelphia, $5,800; ventilating, A. & W. Wegmann, 2813 West Fletcher street, Philadelphia, $1,094. Specification No. 20, William Langhorne, 10 South Eighteenth street, Philadelphia, $9,758. Specification No. 21, plumbing, Philadelphia Piping Co., Philadelphia, $6,900. Specification No. 22, heating, F. Wackenhut, 2416 Frankford avenue, $690. Specification No. 23, William Langhorne, 10 South Eighteenth street, Philadelphia, $8,818. Specification No. 24, plumbing, Bulman Brothers, Fifth and Cumberland streets, $8,084. Specification 25, heating, McClintock & Co., 5609 Race street, $265. Specification No. 26, William Langhorne, 10 South Eighteenth street, Philadelphia, $8,885. Specification No. 27, plumbing, Bulman Brothers, Fifth and Cumberland street, $5,844. Specification No. 28, heating, McClintock & Co., 5609 Race street, Philadelphia, $582.87. Specification No. 29, Mitchell Brothers, 2125 Race street, Philadelphia, $8,700. Specification No. 30, plumbing, Bulman Brothers, Fifth and Cumberland streets, $4,444. Specification No. 31, heating, McClintock & Co., 5609 Race street, $296. Specification No. 32, William Langhorne, 10 South Eighteenth street, Philadelphia, $4,908. Specification No. 33, plumbing, Bulman Brothers, Fifth and Cumberland streets, $3,384.

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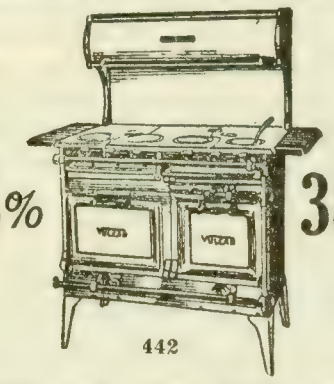
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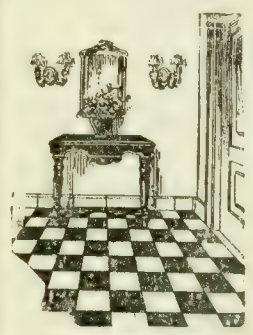
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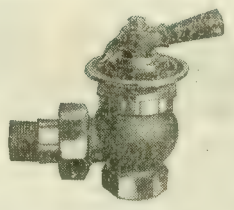
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Specification No. 34, heating, Fred Wackenhut, 2416 Frankford avenue, $223. Specification No. 35, William Langhorne, 10 South Eighteenth street, Philadelphia, $8,899. Specification No. 36, plumbing, S. Faith, 2427 Pennsylvania avenue, Philadelphia, $5,339. Specification No. 37, heating, Philadelphia Piping Co., Philadelphia, $477. Specification No. 38, William Langhorne, 10 South Eighteenth street, Philadelphia, $7,521. Specification No. 39, plumbing, Bulman Brothers, Fifth and Cumberland streets, $5,364. Specification No. 40, heating, McClintock & Son, 1937 Ridge avenue, $330. Specification No. 41, William Langhorne, 10 South Eighteenth street, Philadelphia, $6,708. Specification No. 42, plumbing, Bulman Brothers, Fifth and Cumberland streets, $5,144. Specification No. 43, heating, McClintock & Co., 5609 Race street, Philadelphia, $365. Specification No. 44, William Langhorne, 10 South Eighteenth street, Philadelphia, $6,710. Specification No. 45, plumbing, S. Faith & Co., 2427 Pennsylvania avenue, $5,596. Specification No. 46, heating, McClintock & Co., 5609 Race street, $421. Specification No. 47, S. Sidney Lewis, Real Estate Trust Building, $9,178. Specification No. 48, plumbing, Bulman Brothers, Fifth and Cumberland streets, $4,724. Specification No. 49, heating, McClintock & Co., 5609 Race street, $403. Specification No. 50, William Langhorne, 10 South Eighteenth street, Philadelphia, $7,273. Specification No. 51, plumbing, Thompson Brothers, 512 Buttonwood street, $5,100. Specification No. 52, heating, McClintock & Co., 5609 Race street, $430. Specification No. 60, plumbing, Bulman Brothers, Fifth and Cumberland streets, $9,124. Specification No. 61, heating, McClintock & Co., 5609 Race street, $904. Specification No. 63, electric, J. F. Buchanan, 1904 Sansom street, $476. Specification No. 64, electric, Walker-Kepler, 531 Chestnut street, $765. Specification No. 65, McClintock & Co., 5609 Race street, Philadelphia, $825.

Garage and Store, West side Mt. Pleasant avenue, East of Cresheim street, $17,000. Architect, private plans. Owner, A. Leibowitz, 1112 Franklin Trust Building, Philadelphia. Brick, 1 story, 91x84 feet, store, 51x18 feet, slag roof, cement and pine floors, electric light. Permit granted.

Residences (2), West side Loretta street, South of Ripley street, $12,000. Architect, private plans. Owner, Albert G. Benner, 6033 North Third street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, electric light. Permit granted.

Garage and Shop, 300 West Mt. Pleasant avenue, Philadelphia, $4,000. Architect, private plans. Owner, C. Bonitatibus, on premises. Brick, 2 stories, 21x23 feet, slag roof, cement floors, electric light. Permit granted.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Low bidders: Bleighy street, Whitaker street, Gudknecht & Collisey, Philadelphia, $2,090.34. Callowhill street and Girard avenue, Thomas P. Lee, 5629 Lee street, Cherry street, Philadelphia, $21,135.37. Cayuga street and others, Dewees Brothers, Fifth and Fisher's avenue, Philadelphia, $57,267.11. Cornelius sereet and others, S. C. Rotzell, Limekiln pike, $12,024.60. E street and others, Curtis Brothers, State road, Philadelphia, $2,709.40. Edna street and others, J. F. Nolen & Sons, 364 East Penn street, Philadelphia, $40,164.50. Frontenac street and Lorretta avenue, Dewees Brothers, Fifth and Fisher's avenue, Philadelphia, $4,400.60. Levick street, Torresdale avenue, Gudknecht & Collisey, Philadelphia, $3,086.40. Glen Echo road, McCallum street to Emlen, Louis Volenti, Philadelphia, $21,771.34. Philmont avenue, Bustleton avenue to Byberry road, Curtis Brothers, State road, Philadelphia, $7,571.85. Summerdale avenue, Roosevelt Boulevard to Philadelphia and Frankford R. R., David Duffin, 1623 Lycoming street, Philadelphia, $8,985.40. Sydenham street and Sixty-fifth avenue, Joseph F. Molloy, Philadelphia, $5,046.93. Tyson avenue, Oakley street to Rising Sun avenue, Dewees Brothers, Fifth and Fisher's avenue, Philadelphia, $1,410.85. Durham street, Boyer to Devin street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $5,262.11. Erie avenue, Front to I street, Union Paving Co., Thirtieth and Locust streets, $175,992.58. Kingsessing avenue, Sixtieth and Sixty-third streets, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $50,498.75. Limekiln pike, Champlost to Spencer, Barber Asphalt Co., 1600 Arch street, Philadelphia, $12,196.13. Ogontz avenue, Washington lane to Cheltenham, Barber Asphalt Co., 1600 Arch street, $71,921.36. Roanoke street, Abington to Hartwell lane, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $6,144.90. East School lane, Market street to Kenkon street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $4,582.59. Stokley street, Westmoreland to Hunting Park avenue, Mack Paving & Contracting Co., Nicetown and C street, $26,757.80. Upland Way, Montgomery avenue to Fifty-seventh street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $23,834.63. Wakeling street, Large to Rutland, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $6,713.44. Twelfth street, Webb street, Ontario to Schiller, Barber Asphalt Co., 1600 Arch street, $3,179.05. Wyncote avenue, Sixty-fifth to Sixty-sixth avenue, Barber Asphalt Co., 1600 Arch street, Philadelphia, $12,896.66. Seventeenth street, Pike to Luzerne, Eastern

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Asphalt Co., Pennsylvania Building, Philadelphia, $5,898.32. Seventeenth street, Edna to Widener Place, Mack Paving Co., Nicetown lane and C street, Philadelphia, $7,343.39. Thirty-second street, Overbrook avenue to City Line, Barber Asphalt Co., 1600 Arch street, Philadelphia, $19,989.29. Sixty-first, Baltimore to Cedarhurst avenue, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $2,899.60. Sixty-sixth, Lotus avenue to Woodbine, Barber Asphalt Co., 1600 Arch street, Philadelphia, $15,797.42. Sixty-sixth avenue, Sixteenth to Eighteenth, Mack Paving Co., Nicetown lane and C street, $24,357.23. Allegheny avenue, Richmond to Edgemont, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $51,178. Carlisle street and others, Union Paving Co., Thirtieth and Locust streets, $44,080.10. Haverford avenue, Fortieth to Fifty-second street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $163,427.65. Lehigh avenue, Second to B street, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $92,290.16. Richmond, Dyott street to Lehigh avenue, Municipal Paving Co., 702 Catherine street, $68,116.50. Twelfth street, Girard to Columbia, United Paving Co., Real Estate Trust Building, $18,750.48. Stewart street and others, United Paving Co., Real Estate Trust Building, $14,005.92. Bridge street, Frankford to Tacony, United Paving Co., 68,359.35.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Apartment (alts.), 1509 North Fifteenth street, Philadelphia, $10,000. Architect, private plans. Owner, Dr. Louis Wiley, on premises. General alterations. Contract awarded to Joseph Cichiny, Inc., 743 Corinthian avenue.

Residence, West side Mitchell street, South of Parker avenue, $6,000. Architect, private plans. Owner, Robert Green, 4635 Mansion avenue, Philadelphia. Brick, 2 stories, 19x52 feet, slag roof, hardwood and pine floors, electric light. Contract awarded to Harry Smith, 458 Ripka avenue, Philadelphia.

Bank (alts.), Northwest Corner Forty-fourth and Lancaster avenue, Philadelphia, $4,000. Architect, private plans. Owners, Empire Trust Co., on premises. General alterations. Contract awarded to Carter Paving Co., Northeast Corner Fiftieth and Lancaster avenue, Philadelphia.

Mill Building, Pennsdale and Mitchell streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Kauffman Plush Co., on premises. Reinforced concrete, brick, steel, 5 stories and basement, 106x80 feet (heating, electric and sprinkler reserved), slag roof, cement, maple floors, hollow tile, plumbing, roof ventilators, waterproofing, ornamental terra cotta, rolled steel sash, tin clad doors, bond, floor hardener, ornamental iron work. Contract awarded Robert E. Lamb Co., 841 North Nineteenth street, Philadelphia.

Convent, Large and Sanger, Wissinoming, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Bartholomew's, Rev. J. S. Scanlon, on premises. Stone, cut stone, concrete, steel, limestone, brick, 3 stories and basement, 122x41 feet (plumbing, heating, electric, marble, tile and laundry equipment reserved), slate roof, slag roof, oak and cement floors, metal weather strip, integral waterproofing, ornamental iron work, iron stairs, bond, kalamein and hollow metal doors, metal lath, dumb waiters, laundry chute, incinerator. Contract awarded Murphy-Quigley, 1524 Sansom street, Philadelphia.

Storage Warehouse, 5744-48 Vine street, Philadelphia, $145,940. Architect, F. V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, Security Storage, Inc., on premises. Brick, reinforced concrete, steel, 3 stories and basement, 230x150 feet, slag roof, cement floors, concrete, painting and glazing, plumbing, steam heat, electric light, rolled steel sash, fire doors, ornamental iron work, salt glazed terra cotta. Contract awarded Felix Claro, 10 South Eighteenth street, Philadelphia.

Girl Scout Home, Broad and Pattison streets, Philadelphia. Architect, private plans. Owners, Girl Scout Home, 307 South Juniper street, Philadelphia. Brick, 2½ stories and basement, 24x30 feet, slate roof, oak and pine floors, hot water heat, electric light, plumbing. Contract awarded Metzger, Fisher & White, Otis Building, Philadelphia.

Church and Sunday School, Fifth and Nedro avenue, Philadelphia. Architect, Carl P. Berger, 1512 Walnut street, Phila. Owners, St. Paul's Lutheran Church, Rev. H. E. Meyer, 1144 North Fourth street, Phila. Stone, concrete block, 1 and 2 stories and basement, slate roof, cement and oak floors, plumbing, fire doors, tile and marble work, metal lath, steam heat, electric light. Contract awarded John Schnabel, Abbott Building, Philadelphia.

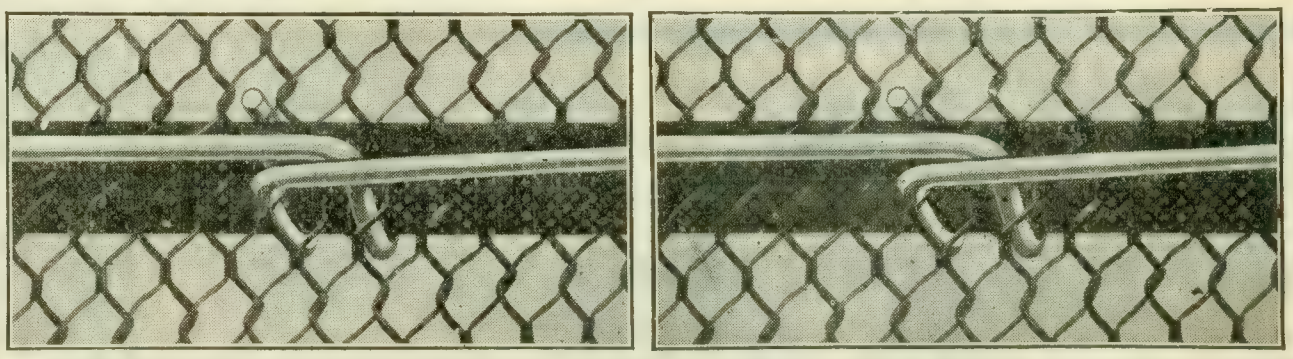
Manufacturing Building (add.), C and Ontario streets, Philadelphia. Architect, private

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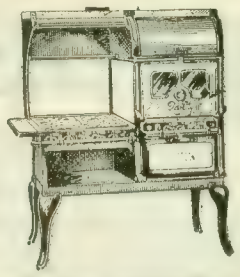


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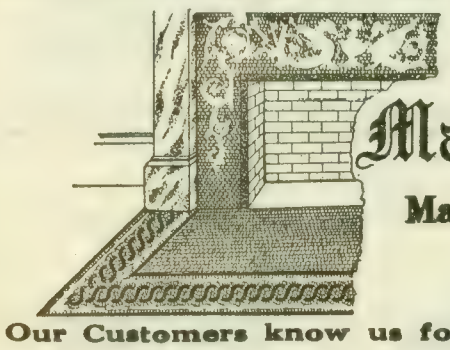
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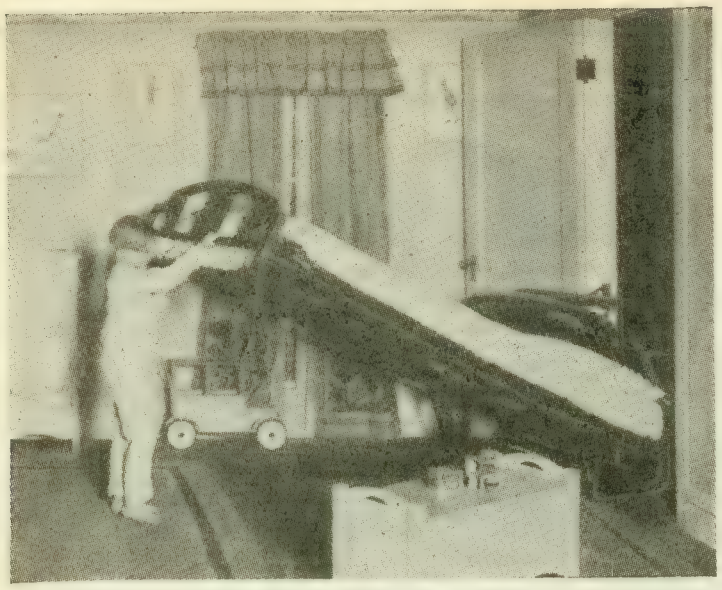
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plans. Owners, Philadelphia Storage Battery Co., on premises. Brick, reinforced concrete, 3 stories and basement, 250x54 feet (plumbing, heating, electric and sprinkler reserved), slag roof, cement floors, electric elevator, painting and glazing, architectural terra cotta, rolled steel sash, Peele fire doors, kalamein doors, ornamental iron work, rolled steel doors. Contract awarded Roberts & Roller, 1700 Walnut street, Philadelphia.

Alterations, 2028 Chestnut street, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, D. D. Sempliner, 1305 Walnut street, Philadelphia. Limestone front, plate glass, tile, marble work, painting and glazing, mill work. Contract awarded to Lam Building Co., 1001 Wood street, Philadelphia.

Waverly Station, Waverly and Juniper streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, cut stone, 1 story and basement, 60x135 feet, slag roof, cement floors, metal lath, rolled steel sash, bond, ornamental iron work. Contract awarded H. H. Conway, 5800 Walnut street, Philadelphia.

Office Building, Juniper and Arch streets, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Lawyer Building Co., D. Bortin, 1218 Chestnut street, Philadelphia. Brick, steel, 12 stories, steam heat, electric light, concrete floors, slag roof, elevators, tile and marble work. Contract awarded to P. M. Sax, Penfield Building, Philadelphia, who is ready for subbids in all lines.

Locker House, Vernon road and Pickering street, Germantown, Pa. Architect, Herman L. Duhring, 1309 Locust street, Philadelphia. Owners, Temple University, Broad and Montgomery avenue, Philadelphia. Stone, concrete block, 3 stories and basement, 41x35 feet, slag roof, cement floors. Contract awarded J. Riley & Son, Forrest avenue, Mt. Airy, Philadelphia.

Palace of Education, Broad and Pattison avenue, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Sesqui-Centennial Exposition, A. C. Baker, 531 Chestnut street. Steel, metal lath, stucco, 1 story, 524x208 feet (plumbing, toilet partitions, electric work reserved), slag roof, composition and cement floors, painting and glazing, rolled steel sash, iron work. Contract awarded Austin Co., Jefferson Building, Philadelphia.

Swimming Pool, Southeast Corner Third, Fourth, Shunk and Oregon avenue, $30,000. Architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Welfare, City of Philadelphia, City Hall, Philadelphia. Reinforced concrete, brick, limestone, steel, 90x50 feet, slag, shingle and asphalt roof, cement floors, painting, glazing, waterproofing, steel doors, floor hardener, ornamental iron work. Contract awarded to McCormick-Lenham Co., 2403 South Broad street, Phila.

Swimming Pool, East side Eighth street, South of Wallace, $25,000. Owners, Department of Public Welfare, Bureau of Recreation, Philadelphia. Brick, concrete, steel, slag roof, cement floors, floor hardener, steel doors, painting, glazing, waterproofing. Contract awarded to McCormick-Lenham Co., 2403 South Broad street, Phila.

Residences (3), West side Cottage street, North of Benner, $15,500 total. Architect, private plans. Owner, Franklin B. Storck, 426 East Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 15x40 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Charles H. Clifton, 1156 East Price street, Philadelphia.

Office and Residence (alts.), 6370 Germantown avenue, Philadelphia, $5,500. Architect, private plans. Owner, Sterling Signs, 6368 Germantown avenue, Philadelphia. General alterations. Contract awarded to Samuel Harting & Son, 20 East Johnson street, Phila.

Store and Residence (alts.), Southeast Corner Fifty-sixth and Market streets, Philadelphia, $2,700. Architect, private plans. Owner, Mrs. M. Kreutzer, on premises. General alterations. Contract awarded to MavVaugh Const. Co., 6134 Market street, Philadelphia.

Office (add.), 5431 North Fifth street, Philadelphia, $2,500. Architect, private plans. Owner, Frank Haufler, 448 Tabor road, Philadelphia. Brick, 2 stories add., 20x14 feet. Contract awarded to William H. Reed, 4951 Sheldon street, Philadelphia.

Hospital (alts. and add.), Northwest Corner Seventeenth and Summer streets, $3,000. Owners, Orthopedic Hospital, on premises. Brick, 1 story add., 16 feet 6 inches x 6 feet 6 inches, general alterations. Contract awarded to H. H. Burrell & Son, 206 South Quince street, Philadelphia.

Store and Residence (add. and alts.), 5946 Germantown avenue, $8,000. Architect, private plans. Owner, Alfred W. Frost, 5946 Germantown avenue, Philadelphia. Brick, 1 story add., 15x11 feet, general alterations. Contract awarded to William C. Wright & Son, 22 Harvey street, Philadelphia.

Residences (21), Lawrence street and Sixty-seventh avenue, Philadelphia, $95,800. Architect, private plans. Owner, Daniel B. McKimmie, Fourth and Market streets, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Frank H. Fitt, 5753 North Fifth street, Philadelphia.

Residence, 5915 Dittman street, Philadelphia, $4,500. Architect, private plans. Owner, George Laudenbrik, 3426 Benner street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors, electric light. Contract awarded to E. T. Bender, 1135 Wakeling street, Philadelphia.

Shop, East side Richmond street, South of Cambria street, Philadelphia, $21,000. Architect, private plans. Owners, National Carbon Co., Cleveland, Ohio. Steel, 1 story, 42x101 feet. Contract awarded to Reading Co., Reading Terminal, Philadelphia.

Garage, East side Rising Sun avenue, South of Courtland street, $18,000. Architect, private plans. Owner, H. D. Rose, 1427 Nedro avenue, Philadelphia. Brick, 1 story, 70x106 feet, slag roof, cement floors. Contract awarded to Penwood Co., 131 North Fifteenth street, Philadelphia.

Storage Shed, East side Bath street, South of Lippincott street, $200,000. Architect, private plans. Owners, Philadelphia Grain Elevator, Reading Terminal, Philadelphia. Steel and concrete, 98 feet 6 inches x 371 feet 6 inches. Contract awarded to M. A. Long Co., Munsey Building, Baltimore, Md.

Manufacturing Building, 611-13 East Moyer street, Philadelphia, $11,000. Architect, pri-

BUILDERS

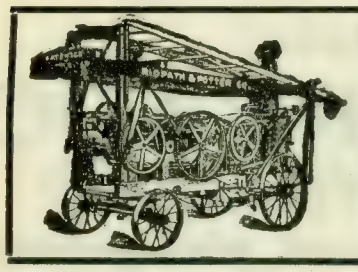
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vate plans. Owners, H. E. Whitaker Co., 4118 Ludlow street, Philadelphia. Brick, 1 story, 40x80 feet. Contract awarded to R. W. Reagan, 4118 Ludlow street, Philadelphia.

Store and Residence (add. and alts.), 249 South Tenth street, $8,000. Architect, private plans. Owner, Sam Supinski, 249 South Tenth street, Philadelphia. Brick, 3 stories, 2x44 feet, general alterations. Contract awarded to Marko Const. Co., 429 South Fifty-seventh street, Philadelphia.

Amusement, Southwest Corner Broad and Packer streets, Philadelphia, $8,000. Owners, Sesqui-Centennial Exposition, Broad and Pattison avenue, Philadelphia. Seaplane. Contract awarded to Fred M. Frick, Glenside, Pa.

Residence, North side Gilham street, East of Oakley street, $7,000. Architect, private plans. Owner, Charles Meyers, 3861 Franklin street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Burholme Gen. Contracting Co., Burholme, Philadelphia.

Building (repairs), 408-10 North Budd street, Philadelphia, $5,000. Architect, private plans. Owner, T. N. Risser, 4237 Lancaster avenue, Philadelphia. General fire repairs. Contract awarded to Leonard Will, 651 North Frazier street, Philadelphia.

Store and Storage Building (alts.), 309 South Fron tstreet, $2,100. Architect, private plans. Owner, H. Fair, 309 South Front street, Philadelphia. General alterations. Contract awarded to Charles Sedofsky, 28 South Redfield street, Philadelphia.

Shop (add. and alts.), 2669 Frankford avenue, Philadelphia, $9,500. Architect, private plans. Owners, Bloomstein & Pearlman, 1932 North Hollywood street, Philadelphia. Brick, 1 story add., 20x34 feet, general alterations. Contract awarded to H. Harad, 4942 C street, Philadelphia.

Residence and Store (add. and alts.), 1203 Columbia avenue, $3,000. Architect, private plans. Owner, B. Czerillo, 1203 Columbia avenue, Philadelphia. Brick, 1 story add., 8x12 feet, general alterations. Contract awarded to S. Yudofsky, 2023 South Eighth street, Philadelphia.

Residence and Store (add. and alts.), 1923 North Berks street, Philadelphia, $2,300. Architect, private plans. Owner, E. W. M. Grant, 1829 North Van Pelt street, Philadelphia. Brick, 3 stories add., 14x6 feet, general alterations. Contract awarded to D. Rosenberg, 2510 South Eighth street, Philadelphia.

Shop, 2225 North Fourth street, Philadelphia, $3,500. Architect, private plans. Owner, Julius Yerkes, on premises. Brick, 2 stories, 18x45 feet, slag roof, electric work. Contract awarded to William Kriger, 6427 Hasbrook street, Philadelphia.

Residence (add. and alts.), 2126 Delancey street, Philadelphia, $2,600. Architect, private plans. Owner, Thomas A. Miles, on premises. Brick, third story add., 12x28 feet, general alterations. Contract awarded to George L. Dougherty, 1725 Ludlow street, Philadelphia.

Residence (alts.), 238 South Fourth street, Philadelphia, $2,500. Owners, Mutual Assurance Co., 240 South Fourth street, Philadelphia. General alterations. Contract awarded to Frank E. Wallace, 337 South Camac street, Philadelphia.

Shed, West side Eighteenth street, South of Indiana avenue, Philadelphia, $10,000. Owners, Charles H. White & Son, on premises. Frame, 118x54 feet 6 inches. Contract awarded to F. A. Havens Co., 845 North Nineteenth street, Philadelphia.

Miscellaneous Sewer Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Contracts awarded: Schedule A—Ashville street, Crispin to Rowland avenue, John Hastie, 601 East Hilton street, Philadelphia, $3,903.75. Brill street, Ditman to Torresdale avenue, John Hastie, 601 East Hilton street, Philadelphia, $9,542.05. Castor avenue, Longshore street to Tyson avenue, Perna Engineering & Contracting Co., 752 South Tenth street, $5,052.50. Comly street, Colgate street to Rising Sun avenue, De Mayo Brothers, Philadelphia, $10,801.80. Cottmann avenue, Frankford avenue to Walker street, J. J. McHugh, 1617 Race street, Philadelphia, $5,460. Decatur street, Crispin to Rowland avenue, John Hastie, 601 East Hilton street, Philadelphia, $4,035.35. Devereaux street, Castor avenue to Roosevelt Boulevard, P. Pinciooto, 1329 Tasker street, Philadelphia, $39,203.50. Eleventh street, Champlost to Godfrey avenue, P. & A. J. Ellis, 5427 North Marshall street, Philadelphia, $23,354. James street, Princeton to Friendship avenue, Batterio & Ponterello, 602 Butler street, Philadelphia, $1,975.85. Large, Longshore to Tyson avenue, Batterio & Ponterello, 602 Butler street, $4,534.20. Longshore street, Castor to Horrocks, Batterio & Ponterello, 602 Butler street, $13,788.12. Loretto avenue, Sanger to Marcello street, Batterio & Ponterello, 602 Butler street, $10,232.95. Marsden street, Princeton to Friendship, Batterio & Ponterello, 602 Butler street, $3,244.81. Moreland avenue, Devon to Winston road, A. Perna & Son, 752 South Tenth street, $19,737.50. Pickwick street, Almond to Thompson, A. Mattio, Philadelphia, $2,468.15. Rowland avenue, Bleigh to Oakmont street, Batterio & Ponterello, 602 Butler street, $7,807.75. Sanger, Frontenac to Loretto avenue, A. Di Sandro & Son, 3905 North Fifth street, $4,515.15. Sanger, Summerdale to Langdon street, P. & A. J. Ellis, 5427 North Marshall street, $11,317.50. Seventeenth street, Chelten avenue to Sixty-fifth avenue, North, A. Bonitatimus, Philadelphia, $18,581. Thompson street, South of Orthodox street, to Alresford street, A. Mattio, Philadelphia, $4,724.60. Twentieth, Ogontz avenue to Seventy-third street, North, A. Frunzi, 513 High street, Philadelphia, $20,787. Upland Way, Coleman to Malvern avenue, A. Perna & Son, 752 South Tenth street, Philadelphia, $8,042. Schedule B—Main sewers: Greenwood, Cheltenham to Merion road, J. & R. Lombardi, Lincoln Building, Philadelphia, $45,975. Tulip, Sanger to Bridge street, Fred Buckius, Kensington and Deal streets, $45,723.

Pennsylvania Construction News

Museum and Library Building, Laboratory, Metallurgical Building, Bethlehem, Pa. Architects, Visscher & Burley, 51 East Forty-second street, New York. Owners, Lehigh University, Dr. C. R. Richards, president, Bethlehem, Pa. Sketches in progress. Too early for details.

Christmas and Saucon Halls, Bethlehem, Pa. Architects, Visscher & Burley, 51 East Forty-second street, New York. Owners, Lehigh University, Dr. C. R. Richards, president, Bethlehem, Pa. Reinforced concrete, 5 stories, 50x73 feet. Architects ready for bids.

Vocational School, Benton, Columbia County, Pa., $60,000. Architect, W. Walter Witman, 21 North Nineteenth street, Harrisburg,

ARCHITECTS

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Pa. Owners, Benton Vocational School, Benton, Pa. Too early for details.

Grade School (Orange Street), Berwick, Pa., $100,000. Architects associated, Witman & Heavner, Harrisburg, Pa., and Berwick, Pa. (registered architects and designers). Owners, Board of Education, York, Pa. Will contain sixteen rooms, brick, Indiana limestone, cast stone, 145x60 feet, metal joint, concrete floors, flat slag roof, iron stairs, metal and wood sash. Plans in progress.

Residence and Garage, Waynesboro, Pa. Architect, W. Walter Witman, 21 North Nineteenth street, Harrisburg, Pa. Owner, T. H. King, Waynesboro, Pa. Stucco, 55x30 feet, asbestos slate roof, tile work, iron work, steam heat, electric light. Plans in progress.

Service Building, Haverford road, Ardmore, Pa., $150,000. Architect, private plans. Owners, Thornton Fuller Auto Co., Mr. George Thornton, 125 East Lancaster avenue, Ardmore, Pa. Brick, steel, 1 story, 30,000 square feet, slag roof, cement floors, steam heat, electric light, tile work, ornamental iron work. Work contemplated.

Bridge across Saw Mill Run, at Basin street, Norristown, Pa., $7,000. Engineer, S. Cameron Corson, Norristown, Pa. Owners, Montgomery County, Norristown, Pa. Stone, concrete. Work contemplated.

Sewer, Marcus Hook, Pa. Engineer, Chester F. Baker, Brozer Building, Chester ,Pa. (assistant engineer). Owners, Borough of Marcus Hook, R. C. Rienie, Chester, Pa. Construction of 8-inch terra cotta sewer. Certified check $100 must accompany each bid. Owners taking bids due April 12th at 8 P. M.

Church, Lime street, Lancaster, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Andrew's Reformed Church, Lewis Sherr, secretary, Building Committee, Lancaster, Pa. Brick, 1 story and basement. Sketches in progress.

Church and Sunday School, Tower City, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Trinity Reformed Church, Rev. Webster Stover, Tower City, Pa. Brick, steel, 1 story and basement, 44x85 feet. Too early for details.

Store, 11 and 13 North Fourth street, Harrisburg, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owner, Morris Houdorf, care of architects. Brick, steel, terra cotta, 4 stories, 42x73 feet, composition roof, rubber tile floors, elevators (heating, plumbing and electric separate). Plans in progress.

Junior High School, Leola, Upper Leacock Township, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Upper Leacock Township School Board, care of architect. Brick, steel, 1 story and basement, 150x200 feet, slate and concrete roof, wood floors, concrete block, electric light, metal lath, steel sash, skylights, fireproof doors, bond. Plans in progress.

Service Building, Haverford road, Ardmore, Pa., $150,000. Architect, private plans. Owners, Thornton-Fuller Auto Co., Mr. George Thornton, Ardmore, Pa. Brick, steel, 1 story, 30,000 square feet slag roof, cement floors, steam heat, electric light, tile work, ornamental iron work. Contract awarded William Steele & Son, 219 North Broad street, Philadelphia. Plans in progress.

Twin Residences (11 pair), Wales and Waverly roads, Llanerch, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Nathan Alderman, 2325 North Smedley street, Philadelphia. Cement block, frame, stucco, 2½ stories, 16x40 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work, garages in basement. Owner ready for sub-bids due at once.

Nurses' Home, Lansdowne avenue and Garrett road, Upper Darby, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Delaware County Hospital, Building Committee, Delaware County Headquarters, Stonehurst, Pa. Plans will be ready for bids in one week.

Residences, Lime street, Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owner, Dr. C. H. Witmer, 126 East Chestnut street, Lancaster, Pa. Stone, stucco, 3 stories, 67x30 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Architect ready for bids.

Residence, Kutztown, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, David Edger, Kutztown Foundry & Machine Co., Kutztown, Pa. Stucco, 1½ stories, 30x40 feet, asbestos roof, hardwood floors, hot water heat, electric light, tile work. Owner will take sub-bids.

Residence (alts.) and Garage, Lebanon, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owner, Clarence Becker, Esq., Lebanon, Pa. Brick, asbestos roof, hot water heat, concrete work. Owner will build.

High School Building, Bangor, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, School District, Borough of Bangor, Northampton County, Reimer Speer, secretary, Bangor, Pa. Brick, steel, 2 stories, built-up roof, maple floors, hollow tile, electric light, metal lath, rolled steel sash, iron stairs. Deposit of $25 required. $20 refunded upon receipt plans and specifications in good condition. Certified check for 5 per cent required. Owners taking bids due April 22nd at 7 P. M.

School (add.), Southwest Corner Saxer avenue and Powell road, Springfield, Delaware County, Pa. Architects, MacKeKnzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, School District of Springfield Township, C. G. Cope, Springfield. Stone, limestone, granite, brick, 2 stories add., 138x42 feet, 2 wings 77x36 feet, slag roof, maple, cement and composition floors, metal lath, kalamein doors, iron stairs, ornamental iron work, shoring, dampproofing, iron stairs, ornamental iron work, cast stone, demolition (plumbing, heating, electric, ventilation separate). Certified check 5 per cent. of bid Deposit $25, refunded $15. Owners taking bids due April 20th.

Residence, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, R. J. Reinhard, care of architect. Concrete block, hollow tile, stucco, 2½ stories and basement, 27x36 feet, 18x20 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work. Architect taking bids due April 15th.

Oakdale School (alts. and add.), Baltimore pike and Chester road, Swarthmore, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, School Board of Springfield Township, C. G. Cope, Springfield, Pa. Brick, stucco, 2 stories and basement, 42x54 feet, wing 24x23 feet, wing 26x30 feet, slag roof, maple floors, composition floors, metal weather strip, shoring, metal lath, kalamein doors, bond, iron stairs, ornamental iron work, gypsum block partitions. Certified check 5 per cent. of bid. Deposit $25, refunded $15. (Plumbing, heating, electric and ventilating separate.) Owners taking bids due April 20.

Wynnewood Road School, Aigle road, Wynnewood, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, School District of Lower Merion Township, Wynnewood, Pa. Brick, reinforced concrete, cut stone, steel, 2 stories and basement, 188x42 feet, wing 174x91 feet (plumbing, heating, electric, ventilating separate bids), built-up roof, composition, mastic, maple and cement floors, hollow tile, elevators, metal lath, tile, marble and terrazzo work, copper skylights, fire doors, ornamental iron work, metal shelving, linoleum floors, metal toilet partitions. Architect taking bids due April 19th.

Residence and Garage, Wynnewood, Pa. Architect, Henry W. Rowe, 14 West Forty-fifth street, New Yokr City. Owner, Joseph W. Gross, care of architect. Stone, 2½ stories and basement, 28x50 feet, wing 25x23 feet, 21x25 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Architect taking bids due April 20th.

School, Jeffersonville, Montgomery County, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, West Norristown School District, Jeffersonville, Pa. Brick, cut stone, cement block, steel, 2 stories and basement, 144x115 feet

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(plumbing, heating, electric and ventilating reserved), gray block slate and slag roof, cement and pine floors, hollow tile, metal lath, bond, ornamental iron work, iron stairs, area grills, waterproofing, limestone. Bids due at architect's office April 16th at noon.

Residence, Wyomissing, Pa. Architect, H. Mauer, 234 North Fifth street, Reading, Pa. Owner, T. C. Christ, Wyomissing, Pa. Stone, 2½ stories, 35x60 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, tile work. Architect taking bids due April 19th.

Residence and Garage, No. 588, Wynnewood, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Samuel C. Wagner, Wynnewood, Pa. Stone, 2½ stories and basement, 98x31 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, plumbing, ornamental iron work. Architects taking bids due April 15th at noon.

Moose Temple, Bradford, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Loyal Order of Moose, E. M. Bitner, Bradford, Pa. Brick, stone, steel, 3 stories, 73x85 feet, quarry tile and Carey roof, maple, pine and oak floors, hollow tile, rubber tile, safety treads, roof ventilators, waterproofing, steam heat, electric light, tile and marble, metal lath, skylights, kalamein doors, iron stairs, ornamental iron work. Architects taking bids due April 20th.

School (add.), Petersburg, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, East Hempfield Township School Board, care of architect. Brick, steel, 2 stories, 32x80 feet, slate roof, maple floors, roof ventilators, safety treads, unit heat, electric light, metal lath, ornamental iron, bond. Architect taking bids due April 22nd.

Residence, Elkins Park, Pa. Owners, I. M. Buck, 3318 N. 16th street, Phila. Frame, stucco, 2½ stories and basement, 32x22 feet, shingle roof, oak and pine floors, plumbing, hot water heat, electric light, tile, ornamental iron work. Owne rtaking bids due April 20th.

School (high), New Bloomfield, Pa. Architects, Hasness & Albright, 313 Walnut street, Harrisburg, Pa. Owners, New Bloomfield School Board, Perry County, D. H. Meck, secretary, New Bloomfield, Pa. Semi-fireproof, 1 story, 118x55 feet, Barrett roof, maple floors, hollow tile, roof ventilators, skylights, steel sash (heating, plumbing and electric separate). Owners taking bids due May 1st.

Pavilion and Gymnasium, Topton, Pa. Architects, Scholl & Richardson, Fifth and Walnut streets, Reading, Pa. Owners, Topton Lutheran Orphanage, Rev. J. C. Henry, Topton, Pa. Steel, frame, concrete block, 1 story, asbestos shingle roof, pine and cement floors, hot air heat, electric light, 130x200 feet. Owners taking bids.

Wire Fence, Central School Grounds, Springfield Township, Pa. Owners, School Board of Springfield Township, Mrs. W. Marshall, Swarthmore and Yale avenues, Swarthmore, Pa. Wire fence to enclosure south and west side of grounds. Bids to be opened April 20th, 8 P. M., at Central School, Saxes and Powell roads, Springfield Township, Pa.

Basement Church, Rising Sun and Robbins avenue, Lawndale, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Williams' Parish, Rev. William A. Motley, on premises. Stone, cut stone, brick, steel, 1 story, 155x79 feet (plumbing, heating, electric reserved), Barrett specification roof, cement floors, carpentry and mill work, painting and glazing, ornamental iron work, metal lath. Architects taking bids due April 15th.

Schools (2), Crest avenue, Washington avenue, Bethlehem, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of Education, Bethlehem, Pa. Low bidders: Crest Avenue—Shepherd Const. Co., Wilkes-Barre, Pa., $66,357; Const. Service Co., Inc., Wilkes-Barre, Pa., $69,897; electric, Bethlehem Elec. Const. & Supply Co., Bethlehem, Pa., $2,271; plumbing, William H. Taylor Co., Allentown, Pa., $4,675; heating and ventilating, American Heating & Ventilating Co., Schaff Building, Philadelphia, $7,256. Low bidders: Washington Avenue School—Shepherd Const. Co., Wilkes-Barre, Pa., $143,443; H. E. Stoudt, Bethlehem, Pa., $146,200; electric, Thomas & Haines, Bethlehem, Pa., $4,767; plumbing, William H. Taylor Co., Allentown, Pa., $7,785; heating and ventilating, American Heating & Ventilating Co., Schaff Building, Philadelphia, $21,728.

Hospital, Lansdowne avenue and Garret road, Upper Darby, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Delaware County Hospital, Building Committee, Delaware County Headquarters, Stonehurst, Pa. Low bidders: D. Lutz & Co., Twenty-third and Chestnut streets, Philadelphia, $100,500; J. M. Yardley, 1700 Walnut street, Philadelphia, $103,333. Plumbing, V. L. Marker, Chester, Pa., $14,600. Heating, William H. Ambrose, Levering and Umbria streets, Philadelphia, $7,829. Electric, W. V. Pangborne Co., 1927 West Montgomery avenue, $6,350.

Twin Residences (24 pair), Folcroft, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, Ray Fosdick, Folcroft, Pa. Low bidder: J. H. Dawson, Folcroft, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Low bidders on work received April 6th.

Warren County, R-279, A-3953, Sugar Grove Township and Borough, 11,809 feet. Either bituminous surface on concrete foundation or one course reinforced concrete. F. L. White Co., Warren, Pa., $92,783.29.

York County, R-230-441, A-3544, Penn and Manheim Townships, 25,668 feet. One course reinforced concrete. Continental Contracting Co., Baltimore, Md., $188,092.73.

Indiana County, R-337, A-3700-3915, Brush Valley and East Wheatfield Townships. Jamieson & KKnapp, Fredonia, Pa., $161,676.80 (rejected).

Schuylkill County, R-161, Sec. 2, Frackville and Gilberton Boroughs, West Mahanoy Townshsip ,8,518 feet. One course reinforced concrete pavement and hillside vitrified brick. James Christiana, Shamokin, Pa., $179,464.92.

Crawford County, R-447, A-3819, Sadsbury and Summit Townships, 11,525 feet. Either bituminous surface on concrete base or one course reinforced concrete. H. E. Bunce, Olean, N. Y., $100,466.85.

Northumberland County, R-161, S-3, Ralpho and Shamokin Townships, 13,388 feet. One course reinforced concrete. William M. Moser, Mt. Carmel, Pa., $148,918.63.

Monroe County, R-169, A-3417, Stroud and Pocono Townships, 15,850 feet. One course reinforced concrete. Collins & Maxwell, Inc., Easton, Pa., $128,784.84.

Clinton and Cameron Counties, R-105, S-4-6, Grove and East Keating Townships, 51,725 feet. Grading and drainage. W. C. Guncheon & Co., Harrisburg, Pa., $192,926.17.

Berks County, R-197, A-3372, S-2, Oley, Exeter, Upper and Lower Alsace Townships, 25,110 feet. One course reinforced concrete. Michael Staub, Reading, Pa., $210,693.42.

Low bidders on work received April 7th:

Fayette County, R-366, A-3059-3662, S-3-4, Springfield Township, 23,800 feet. One course reinforced concrete. Payne-Yost Const. Co., Pittsburgh, Pa., $216,688.44.

Berks County, A-3587, Heidelberg, North Heidelberg, Jefferson and Penn Townships, Robesonia and Bernville Boroughs, 32,713 feet. Grading and drainage. S. J. Groves & Sons Co., Duncannon, Pa., $76,787.

Montour County, R-182,,240, A-3765, Danville Borough, 3,460 feet. One course reinforced concrete. Reitz Brothers, Sunbury, Pa., $34,589.20.

Susquehanna County, R-296, A-3651, Forest City Borough, 2,484 feet. One course reinforced concrete. John Booth, Carbondale, Pa., $40,218.30.

York County, A-3940, East Hopewell Township, 4,676 feet. One course reinforced concrete. York Eng. & Const. Co., York, Pa., $36,480.20.

Lackawanna County, R-322, A-924, Archbald Borough, 3,014 feet. One course reinforced concrete. Public Service Prod. Co., Newark, N. J., $113,181.25.

Tioga County, R-478, A-3963, Westfield Borough, 3,014 feet. One course reinforced concrete. A. W. Hinaman, Williamsport, Pa., $30,477.21.

Butler County, R-75, A-3872, Center Township, 8,903 feet. One course reinforced concrete. Charles Winters Const. Co., Butler, Pa., $86,729.54.

Montgomery County, R-151, Cheltenham Township, 3,642 feet. One course reinforced concrete. Fish-Rutherford & Co., Inc., 2313 Walnut street, Philadelphia, $89,101.69.

Pennsylvania Contracts Awarded

Residence, Providence road, Nether Providence Township, Delaware County, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Mr. Charles R. Long, 418 Market street, Chester, Pa. Brick, stone, concrete, cut stone, 2½ stories and basement, 45x29 feet, hot water heat, electric light, ornamental iron work, flagstone, variegated slate roof, electric light, oak and pine floors. Contract awarded F. J. Kerr, Eddystone, Pa.

Residence and Garage, Drexel Hill, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, George W. Statzell, Drexel Hill, Pa. Hollow tile, stucco, 2½ stories, 30x54 feet, 20x30 feet, Spanish tile roof, hardwood floors, refrigerators, hot water heat, electric light, oil burning, tile work. Contract awarded Fremont Const. Co., Drexel Hill, Pa.

School (add.), Cornwells, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, Board of Education, C. C. Markley, Andalusia, Pa. Contract awarded Holmesburg Con. Co., Welsh road and Crispin street. Plumbing, J. S. Moyer, Bristol, Pa. Heating and ventilating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia. Electric, H. O. Bruner, Bristol, Pa.

Barn (bus), Llanerch, Pa. Architect, private plans. Owners, Philadelphia & West Chester Traction Co., Sixty-ninth and Market streets. Brick, 1 story, 50x125 feet, slag roof, cement floors. Contract awarded John N. Gill Const. Co., City Center Building, Philadelphia.

Office Building, Reading, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owners, Reading Abattoir Co., 216 Pine street, Reading, Pa. Brick, steel, 1 story and basement, 52x36 feet, Barrett roof, composition and concrete floors, waterproofing, electric work, steel sash, skylights, steel stairs. Contract awarded to Reider & McLaughlin, Reading, Pa.

Residence, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, A. J. Robinson, Third avenue, Royersford, Pa. Brick, 2 stories, 36x26 feet, asphalt shingle roof, pine and oak floors,

hot water heat, electric light, steel and wood sash. Contract awarded to W. A. Becker, Royersford, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Jefferson and Clearfield Counties, R-59, A-3525-3526-3794, Sandy and Washington Townships, Falls Creek Borough, 9,679 feet. One course reinforced concrete. Contract awarded to Metzger, Kirkpatrick & Wallis, $62,244.78.

Adams County, R-44, A-3933, Gettysburg Borough. Contract awarded to W. Grant Raub, Red Lion, Pa., $19,388.01.

New Jersey Construction News

Residence, Wissahickon avenue, Atlantic City, N .J. Architect, Louis Joseph Tonk, Schaff Building, Philadelphia. Owner, H. Varbalow, Atlantic City, N. J. Cinder block, stucco, 2 stories, 27x42 feet 6 inches, tile roof, hardwood floors, hot water heat, electric light, tile work, ornamental iron work. Owner taking sub-bids.

Stores, Apartment and Residence, Glassboro, N. J. Architect, Louis Joseph Tonk, Schaff Building, Philadelphia. Owner, S. F. Kotler, Glassboro, N. J. Brick and concrete block, 2 stories, 89x96 feet, slag roof, hot water heat, electric light, tile and marble work, bond, metal bulks. Architect taking bids due April 14th.

Grade School, Westville, N. J. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of Education of Westville, N. J. Brick, reinforced concrete, cut stone, steel, 1 story and basement, 61x66 feet (plumbing, heating, electric, ventilating separate), composition roof, maple and cement floors, hollow tile, metal lath, roof ventilators, waterproofing and dampproofing, bond, kalamein doors, ornamental iron work, tin-clad doors. Deposit $15, refunded $12. Certified check or bid bond for entire amount. Owners taking bids due April 27th, 8 P. M.

Residences (2), Corinthian avenue, First street and St. James Place, Ocean City, N. J. Architect, George S. Idell, Corn Exchange Building, Philadelphia. Owners, Dubois & Nulty, Inc., Ninth and Central avenue, Ocean City, N. J. Concrete foundations and hollow tile, stucco, 2 stories, 24x67 feet each, garage, 18x22 feet, hot water heat, electric light, oil burning, red Spanish tile roof, tile on all first floors, hardwood floors, metal lath, tile baths, brick chimneys and fireplace, metal lath, cement work. Herbert E. Broadwater, care of Dubois & Nulty, 503 Ninth street, Ocean City, N. J., wants sub-bids on all lines at once.

Armory, Burlington, N. J., $50,000. Architect, H. A. Brown, Burlington, N. J. Owners, State Military Board, care of Colonel Hill, Trenton, N. J. Brick, steel, 1 story and basement, 60x100 feet, slag roof, maple and cement floors, steam heat, electric light. Plans in progress.

Stores and Apartments (7), Audubon, N. J. Architect, J. C. Jefferis, 312 Market street, Camden, N. J. Owner, R. L. Barber, Audubon, N. J. Brick, concrete block, 2 stories, 44x140 feet, slag roof, hardwood and pine floors, electric lighting. Plans in progress.

Sales Room and Office Building, New Brunswick, N. J., $150,000. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Elwood E. Waller, New Brunswick, N. J. Brick, steel, 2 stories and basement, 67x166 feet, Johns Manville roof, concrete, maple and terrazzo floors, hollow tile, iron stairs, fire doors, steel sash, tile and marble, metal lath, steam heat, electric light. Plans in progress.

Synagogue, Mercer street, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, Workman Circle, Branch No. 90, J. Speckter, president, Trenton. Brick, steel, 2 stories, 45x100 feet, slag roof, hardwood floors, roof ventilators, hollow tile, ornamental iron skylights, tile work, metal lath, steam heat, electric light. Revised plans in progress.

Church (alts.) and Convent, Burlington, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owners, All Saints' Roman Catholic Church, Burlington, N. J. Brick, steel, 2 stories, 30x52 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids.

Hotel (alts.), Vineland, N. J., $100,000. Architect, not yet selected. Owner, Benjamin Lubin, Vineland Park, Vineland, N. J. Fifty-room add. Architect will be selected in about two weeks.

Theatre, Vineland, N. J., $500,000. Architect, not yet selected. Owner, Benjamin Lubin, Vinelan dPark, Vineland, N. J. Seating capacity, 2,000. Architect will be selected in about two weeks.

Residence and Garage, Riverton, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, C. W. Wanger, Riverton, N. J. Hollow tile, brick, 2½ stories, 35x50 feet, wood and shingle roof, hardwood and cement floors, hot water heat, electric light, metal lath, tile and marble work. Architect taking bids due April 17th at noon.

New Court House, Cape May Court House, N. J. Architects, Edwards & Green, Camden, N. J. Owners, Board of Chosen Freeholders, Cape May Court House, N. J. Owners taking bids due April 21st at 2.30 P. M.

Store, (4) Offices and Dance Hall, 55-61 Main street, Mt. Holly, N. J., $40,000. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owner, Morris Hutner, 1215 Empire avenue, Camden, N. J. Brick, 3 stories, 56x76 feet. Preliminary plans in progress.

Service Station and Garage, Hamilton Township, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, S. Feinstein, care of architect. Brick, steel, 1 story, 54x150 feet, slag and tile roof, concrete floors, hollow tile, steam heat, electric light, metal lath, steel sash, fire doors. Architect taking bids due as soon as possible.

Alms House and Tuberculosis Hospital (alts. and add.), New Lisbon, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia; Riverside, N. J. Owners, Burlington County Board of Chosen Freeholders, Burlington. Brick, steel, precast stone, 2 stories and basement, 79x40 feet, tin, asbestos shingle roof, pine and cement floors, painting and glazing. Owners taking bids due April 15th. Certified check, 5 per cent. of bid.

Reservoir, Camp Dix, N. J. Architect, private plans. Owners, Corps Area Quartermaster, Camp Dix, Governor's Island, N. Y. Concrete, 75,000 gallons. Owners taking bids due April 15th at 11 A. M. Plans may be obtained at Quartermaster's Office.

Bridges (2), Forest Hill Park, Camden, N. J. Architect, private plans. Owners, Department of Purchaser, Room No. 6. City Hall, Camden, N. J. (H. P. Pelouze). Repairs to 2 bridges (stone arch). Certified check $100. Owners taking bids due April 19th. 10 A. M.

Residences (2). Residence and Store (1), 1535-37-39 South Tenth street, Camden, N. J., $13,000. Architect, private plans. Owners, Edward Praiss and K. Kay, 1566 Mt. Ephraim avenue, Camden, N. J. Brick, 2 stories, 14x50 feet and 17x60 feet, slag roof, pine floors, hot air heat, electric light. Permit granted.

Residences (2), 2729-31 Lincoln avenue, Camden, N. J., $7,800. Architect, private plans. Owners, Arllen & Renner, 2721 Lincoln avenue, Camden, N. J. Frame, 2 stories, 14x38 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Bridges (2), New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Hunterdon County, Route No. 0, at M. P. 16.3 and 17.0 over branches of Raritan River. (1) span 12 feet, (1) span 30 feet, with clear roadway width of 40 feet. Structural steel, concrete and excavation. Lowest bidders: J. M. Everett, Hackettstown, N. J., $21,166.52; F. W. Schweirs, Jr., Co., 90 West street, New York, $21,473.10.

New Jersey Contracts Awarded

Office and Service Station, Sixth and Jefferson streets, Camden, N. J., $125,000. Architects, Faile Seelye & Co., 101 Park avenue, New York. Owners, Mack International Truck Co., 741 Market street, Camden, N. J. Brick, steel, one story and basement, 190x252 feet, Johns Mansville roof, cement floors, roof vents, metal window guards, water and dampproofing, metal lath, rolled steel sash and skylights, ornamental iron work, area gratings, metal toilet partitions. Contract awarded Nelson Pedley Co., Corn Exchange Building, Philadelphia.

Collectors' Office (alts. and add.), Mt. Holly, N. J. Architect, H. O. Ziegler, 1012 Walnut street, Philadelphia. Owners, Board of Freeholders, Burlington County, N. J. Brick, one story, carpentry and millwork. Contract awarded Roscoe Gales, Mt. Holly, N. J.

Residence, Wildwood Crest, N. J. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelpha. Owner, H. L. Strickler, Wildwood Chest, N. J. Frame, two stories, 30x30 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to W. C. Runyan, 105 West Aster Road, Wildwood Crest, N. J.

Garage and Tool Storage House, rear 1466 Haddon avenue, Camden, N. J. Architects, Edwards & Green, Van Russ Building, Camden, N. J. Owner, Charles H. Leupold, on premises. Block, one story, 20x28 feet, 29x12 feet, slag roof. Contract awarded to W. C. Magee, 315 Cattell avenue, Collingswood, N. J.

Residences (54), Fourth and Lansdowne avenue, Camden, N. J., $162,000. Architect, Lous J. Tonk, Schaff Building, Philadelphia. Owners, Herbert V. Realty Co., Camden, N. J. Brick, two stories, 14x40 feet and 19x26 feet, slag roof, hardwood floors, hot water heat, electric light. Contract awarded to Max Goldrich, 227 Federal street, Camden, N. J.

Residences (6), 3038-52 Fenwick Road, Camden, N. J., $18,000. Architect, Harold A. Allen, 526 Stevens street, Camden, N. J. Owner, Peter Gondolf, Camden, N. J. Brick, two stories, 16x35 feet, slag roof, pine floors, hot air heat. Contract awarded to Richard Gondolf, 3035 Tuckahoe Road, Camden, N. J.

Residence, 338 Pine street, Camden, N. J., $6,000. Architect, Harold A. Allen, 526 Stevens street, Camden, N. J. Owner, Angelo Sapanare, Camden, N. J. Brick, two stories, 17x55 feet, slag roof, hot water heat, electre work. Contract awarded to John Danastasio, 1352 Sheridan street, Camden, N. J.

Church, Thirty-fourth street, South of River avenue, Camden, N. J., $20,000. Architect, J. C. Jefferis, 312 Market street, Camden, N. J. Owners, North Cramer Hill Baptist Church, on premises. Block and stucco, 2 stories, 48x33 feet, asbestos roof, electric work. Contract

awarded to Thomas H. Miller, Merchantville, N. J.

Residences (4), 523-25-27 and 49 Fairview street, Camden, N. J., $14,000. Architect, private plans. Owner, Dr. Butler, Mt. Ephraim and Kaighn avenues, Camden, N. J. Brick, 2 stories, (3) 16x45 feet, (1) 17x45 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to James S. Furman, Woodlynne, N. J.

Building (add.), 780 Wright avenue, Camden, N. J., $3,500. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, C. R. Ely, Inc., on premises. Brick, 1 story add., 37x40 feet, slag roof, pine floors, steam heat, electric light. Contract awarded to Benjamin Corotis, 100 Virgin avenue, Westmont, N. J.

Miscellaneous Construction News

Mausoleum, Rock Creek Cemetery, near Washington, D. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, Mrs. C. I. Corby, care of architect. Westley granite and marble, bronze doors. Contract awarded Davis, Wick & Rosengarten Co., 418 District National Building, Washington, D. C.

Lunch Room and Apartment (alts. and add.). 156 West Seventy-second street, New York City. Architects, Stuckert & Co., 1520 Chestnut street, Philadelphia. Owners, Bickfords, Inc., on premises. Tile, marble, branze work, steam heat, electric light, hardwood floors, cafeteria, kitchen and restaurant equipment. Plans in progress. Architects will be ready for bids in a few days.

Church and School, Wilmington, Del. Architect, Hoffman Henon, Finance Building, Philadelphia. Owners, St. Thomas' R. C. Church, Rev. Lynch, Wilmington, Del. Stone, brick, steel. Plans in progress.

Grade School. Location not decided, Wilmington, Del. Architects, Guilbert & Betelle, Newark, N. J. Owners, School Auxiliary Board, A. J. Taylor, DuPont Building, Wilmington, Del. Architects selected. Too early for details.

Residence, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, Trueman Campbell, care of architect. Brick, 2½ stories, 40x33 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect will be ready for bids next week.

Residence (alts. and add.), Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, Corban Stewart, care of architect. Cinder block and stucco, two stories, 16x20 feet, slag roof, pine floors, electric light. Owner will build.

..Road Work, Delaware. Owners, State Hihgway Department, Dover, Del. Owners taking bids, due Aprl 28th at 2 P. M. Plans, $2.00 per set. Certified check for 10% required.

Contract 62, White Oak Road addition, 1.3 miles. Excavation, borrow, broken slag base course for secondary roads, corrugated metal pipe.

Contract 63, Gum Cross Roads-Laurel Road, 2.30 miles. Excavation, borrow, broken slag base course for secondary roads, corrupgated metal pipe.

Contract CK34, Smyrna-Wendall's Corner, 1.90 miles. Excavation, borrow, cement, concrete movement, cement concrete pavement (slag aggregate), longitudinal metal joint, non metallic joint, Class A concrete, reinforcement, R. C. pipe, wood shoulder curb.

Contract CS50, oncord-Hardscrabble, 4.965 miles. Clearing, grubbing, excavation, borrow, cement concrete pavement, sand asphalt surface course, lass A concrete, renforcement, corrugated metal pipe, R. C. pipe, wood shoulder curb.

Miscellaneous Contracts Awarded

Store (alts. and add.), Union street, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner's name withheld rick, one story, 18x20 feet, slag roof, pine floors, electric light, plate glass. Contract awarded to L. Cantera, Eighth and Lincoln streets, Wilmington, Del.

Residence, Wilmington, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owner, George Kleitz, 225 West Fourteenth street, Wilmington, Del. Stone, 2½ stories, 40x43 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Fred Krapf, 421 Orange street, Wilmington, Del.

Store (add.), S. E. Cor. Fourth and Shipley streets, Wilmington, Del., $9,900. Architect, private plans. Owners, Hance Hardware Co., on premises. Brick, four stories, 23x50 feet, slag roof, wood floors, heating extension, electric lighting. Contract awarded to Joyce & Kerrigan, 1021 West Fourth street, Wilmington, Del.

Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912, for October 1, 1925.

Editor, H. L. Sharpe.

Managing Editor, none.

Business Manager, Louis S. DeLone.

Publishers, Building News Publishing Co., 1530 Chestnut street, Philadelphia.

Owners, Louis S. DeLone, 1530 Chestnut street, Philadelphia; Building News Publishing Co., 1530 Chestnut street, Philadelphia, Pa.

Known bondholders, mortgages and other security holders holding one per cent. or more of total amount of bonds, mortgages or other securities, none.

(Signed)
Building News Publishing Co.,
Louis S. DeLone, Business Manager.

Sworn and subscribed before me this 12th day of March, 1926.

H. A. Lang, Notary Public.

(My commission expires March 2, 1929.)

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soil with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

The BUILDERS' GUIDE is in its fortieth year of continuous publication.

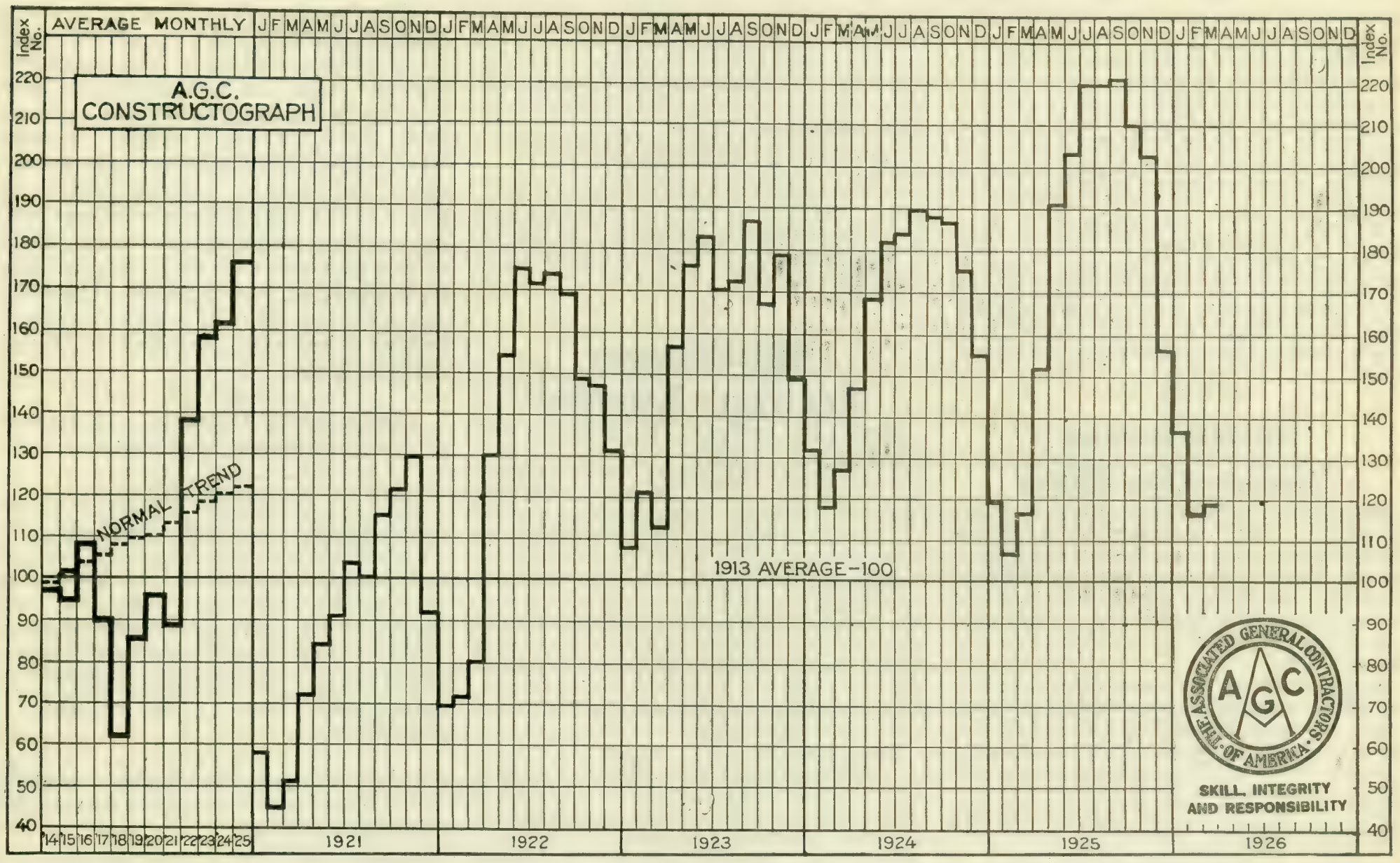
Man and the giraffe are the only two living things that can't swim naturally. Throw a day-old kitten into the Mississippi and it will paddle its way to shore. The giraffe can't swim because he's not built that way. Man can't swim, just because he is afraid. The chances are that the reason you are not in the swim—financially or otherwise—is because you are afraid.—Glen Buck.

Don't be a Rip Van Winkle. Advertise and let everybody know you are awake and abreast of the times.

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VOLUME OF CONSTRUCTION

Washington, April 11.—Construction operations lulled in March. Experts do not attach significance to this condition, however. They are inclined to believe a season of high activity will follow. Statistics compiled by the Associated General Contractors of America show the number of contracts awarded and of building permits issued during the first three months of 1926 to be in excess of the corresponding figures for 1925. This is interpreted to mean that the volume of construction operations during the next few months will probably approach or equal the marks set last year.

Construction in March did not show the increase over February that usually is expected each year. Despite this fact, the volume of operations for the first three months of this year were 9 per cent greater in volume than the amount shown for the first quarter of 1925.

The average of construction costs in the principal building centers dropped slightly during March. With the exception of February, when a barely perceptible increase was registered, these costs remained on a single level throughout the preceding five months.

The average wage paid in the construction trades has not varied during six months. The slight decrease in the average cost of building materials last month was the result of a flickering change in prices paid in several localities by contractors for sand, gravel, crushed stone and cement.

With the first quarter of the year passed, it is regarded as evident that a large number of prospective builders who already have awarded contracts and secured permits for construction which they contemplate merely are awaiting advent of the spring and summer months to give the word for operations to begin. Observers generally given credit for authoritative opinion do not expect this year in its entirety to fall much below the record-breaking construction operations of 1925. They do feel confident, however, the spring and early summer months will see building activities reach a level higher than was achieved in the corresponding periods of 1924 and 1925.

SUBSTANCES CONTAINING GRIT AND SALTS SHOULD NOT BE USED AS A CLEANING MATERIALS FOR MARBLE

In connection with the various investigations being made at the Bureau of Standards relative to the use and maintenance of interior marble one problem that is being studied is the effect of certain ingredients of trade cleaners on the marble. The Bureau has previously pointed out that cleaners of the scouring types are too harsh for use on polished marble because the grits usually employed are harder than marble and gradually destroy the polish. Another question which appears to be of considerable importance in connection with marble cleaning is the effect of such detergents as soda ash and trisodium phosphate. When such salts are frequently used they crystallize in the pores of the marble and in some cases exert enough pressure to deface the surface. Sucient evidence has been developed to justify a limitation of the use of such detergents, especially in cases of costly marble installations where it is desirable to preserve the highly prized tones and character of the original material.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class Every copy reaches a live prospect.

Many a man would do a better job if he didn't know about putty.—Ex.

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Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.
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Clausen, Wm. H. ....27th and Diamond Sts., Phila.
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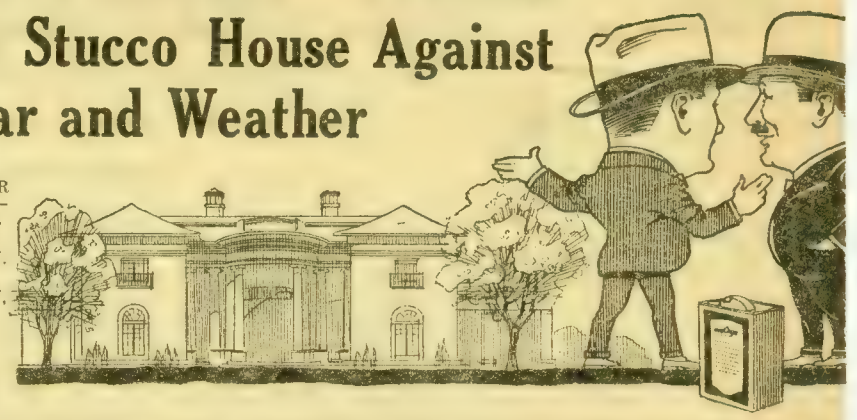
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 16
April 21, 1926

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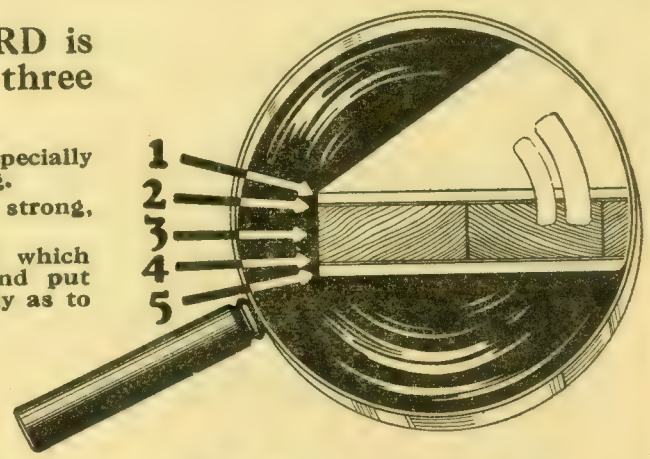
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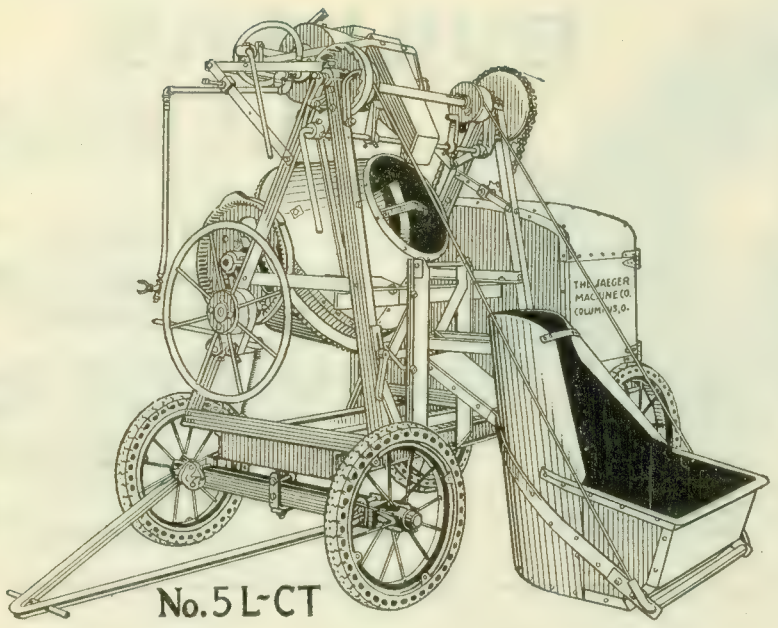
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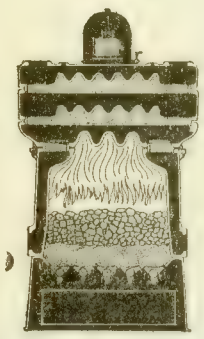
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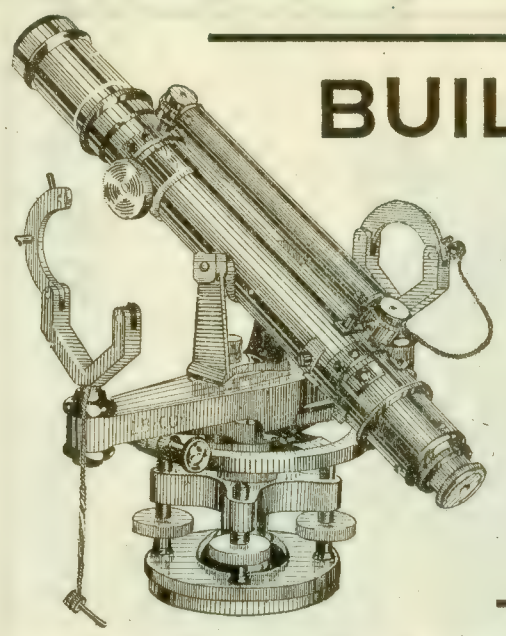
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 16

PHILADELPHIA
April 21, 1926

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Sewer Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineers, 216 City Hall. Owners taking bids due April 21st at noon. Certified check 5 per cent. of bid. Inquire Room 416. Branch sewer, main sewers, Aramingo avenue, etc.

Factory, Lancaster avenue near Fifty-seventh street, Philadelphia. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owners, John M. Driver, Inc., 1644 North Fifty-fifth street, Philadelphia. Brick, reinforced concrete, steel, cast stone, 1 and 2 stories, 275x81 feet, asbestos built-up roof, cement floors, painting and glazing, roof ventilators, waterproofing, ornamental iron work, hollow metal doors, rolled steel sash and shutters, sprinkler system. Revised plans in progress.

Stores (4) and Apartment, Fifth and Roosevelt Boulevard, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Aaron Traub, 6701 North Broad street, Philadelphia. Brick, 4 stories, 75x66 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Manufacturing Building (add.), Swanson and Shunk streets, Philadelphia. Architect, not selected. Owners, American Container Co., P. H. Schmitz, Swanson and Shunk streets. Brick, steel, 1 or 2 stories. Work contemplated. Too early for details.

Residence, Ardleigh street, corner Devon street, Philadelphia. Architect, E. Allen Wilson, 1209 Chestnut St., Phila. Owner, Clarence Jamison, Weightman Building, Phila. Architect selected. Too early for details.

Apartment House, 3509 Baring street, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, steel, concrete, 4 stories, 72x104 feet, steam heat, electric light, slag roof, hardwood floors, marble work. Preliminary plans in progress.

School (alts. and add.), Forty-seventh and Springfield, Philadelphia. Architect, Henry D. Dagit & Co., 1329 Race street, Philadelphia. Owners, St. Francis De Sales Church, Rt. Rev. M. J. Crane, on premises. Stone, limestone, 2 stories and basement, 30x50 feet, slag roof, pine and cement floors, plumbing, plastering, painting and glazing, roof ventilators, shoring, plumbing, plastering, architectural terra cotta, ornamental iron work, bond, elecceric light, tile, marble and terrazzo work, metal lath, ornamental plaster, demolition, hollow metal doors adn sash. Revised plans about completed. Architects ready for new bids.

Residences (54), Levering street, Roxborough, Philadelphia. Architect, Peter Kuhn, 3058 North Eighth street, Philadelphia. Owner, J. M. Brady, 3523 North Seventeenth street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, basement garages. Owner ready for sub-bids in a few days.

Pumping Station, Northeast Sewage Disposal Plant, Richmond and Wheatsheaf lane, Philadelphia. Owners, Department of Public Works, Bureau of Engineers, City Hall. Reinforced concrete, brick, steel, 3 stories, 150x82 feet (plumbing, heating, electric separate bids), slag roof, cement floors, hollow tile work, safety treais, roof ventilators. Will readvertise in a few days.

Office Building, Duncannon, Sepviva, Church and Aramingo avenue, Philadelphia. Architect, private plans. Owners, Montgomery Iron & Steel Co., Samuel Frank, W. Nelson Mayhew, 918 Berks street, Philadelphia. Brick, steel, cast stone, 2 stories, 50x50 feet, slag roof, gas steam heat, electric light, slag roof, concrete and maple floors, plumbing, rolled steel and wood sash. Permit issued, $50,000.

Residence (alts. to 10 Apartments), 1821-23 East Tioga street, Philadelphia. Architect, Edward Schoeppe, 1437 Spruce street, Philadelphia. Owner, name withheld. General alterations, hot water heat, oil burning, electric light, hardwood floors, fire tower. Plans ready for builders. Bids due May 1st.

Store and Office Building, Southeast Corner Seventeenth and Walnut streets, Philadelphia. Architect, Edward Schoeppe, 1437 Spruce street, Philadelphia. Owner, W. M. Horner, Bryn Mawr, Pa. Brick, steel, 2 stories, 25x120x85 feet, L shape, slag roof, maple floors, steel work, plate glass, copper bulks, electric light, vapor heat, oil burning. Plans will be ready for bidders April 23rd. Bids due in two weeks.

Moving Picture Theatre, 5410-12 Chester avenue. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owners, Babis & Bender, Schubert Building, Phila-

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delphia. Brick, terra cotta, steel, 1 story, 45x200 feet, slag roof, concrete floors, electric light. Owners ready for sub-bids.

Apartment House (20-family), 440-42 Queen lane, Germantown. Architect, private plans. Owners, Ruhland Building Co., 5232 Laurens street, Germantown, Philadelphia. Brick, stone, 4 stories, 46x113 feet, slag roof, hardwood and rubber floors, steam heat, electric light, tile work, fire doors, excavating, cement, structural iron, carpentry, mill work, lumber, stair work, kitchen units, plastering, painting, glazing, plumbing, incinerators, marquise, inside telephones, heat regulators. Owners taking sub-bids.

Residences (8), Cheltenham avenue, Philadelphia, $35,000 each. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, J. M. Brady, 3523 North Seventeenth street, Philadelphia. Stone, 2½ stories and basement, 27x54 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Owner will build.

Apartment House, Oakland and Oxford streets, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, George T. Sale, Liberty Building, Philadelphia. Brick, steel, reinforced concrete, 4 stories and basement, irregular in size, metal bulks, plate glass, slag roof, cement floors, hardwood, rubber tile and linoleum floors, hardware, electric light, elevator entrances, tile and marble work, structural steel, terra cotta partitions, limestone. Architects taking bids due April 27th.

Apartment House, 4028 Walnut street, Philadelphia. Architects, Lachman & Murphy, Drexel Building, Philadelphia. Owner, George T. Sale, Liberty Building, Philadelphia. Brick, steel, reinforced concrete, 6 stories and basement, 170h50 feet, slag roof, cement, hardwood, rubber tile and linoleum floors, hardware, tile and marble work, electric light, plumbing, elevator entrances, demolition, gas fittings, structural steel, limestone, terra cotta partitions, miscellaneous iron work. Architects taking bids due April 27th.

Bank (alts. and add.), Fifty-second and Market streets, Philadelphia. Architect, W. Lesher Blithe, 608 Chestnut street, Philadelphia. Owners, Market Street Title & Trust Co., Alexander Wilson, Jr., president, Fifty-second and Market streets, Philadelphia. Brick, cut stone, steel, 2 stories and basement, 78x90 feet, slag roof, cement floors, hollow tile (plumbing and heating reserved), electric light, metal lath, rolled steel skylights, hollow metal doors. Architect taking bids due April 26th.

Residence (alts. and add.), Sharpless road, Oak Lane, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Amos Birdsall, Jr., Sharpless road, Oak Lane, Philadelphia. Slate roof, reinforced concrete work, carpentry and mill work, oak floors, plumbing, tile work, plastering, limestone, bond. Architects taking bids due April 26th.

Residences (36), Bristol and Fairhill streets, Philadelphia, $4,000 each. Architect, private plans. Owner, Harry Gelsman, 4339 North Sixth street, Philadelphia. Brick, 2 stories, (35 16x33 feet, (1) 31x16 feet, slag roof, pine floors, electric light. Permit granted.

Residence, South side Oriole street, West of Ridge avenue, Philadelphia, $8,000. Architect, private plans. Owners, G. L. and J. K. Callahan, 542 East Fairthorne street, Philadelphia. Frame and stucco, 2 stories, 18x16 feet, 24x16 feet, hot water heat, electric light. Permit granted.

Residences (2), East side Bingham street, South of Benner street, $4,600 each. Architect, private plans. Owner, Ralph Cenino, 7041 Mower street, Philadelphia. Brick, 2 stories, 15x35 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (3), West side Bingham street, North of Levick street, $4,500 each. Architect, private plans. Owner, Charles Oliver, 241 North Hepburn street, Philadelphia. Brick, 2 stories, 15x24 feet, 11x10 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (68), Scattergood, Langdon and Summerdale streets, Philadelphia. Architect, private plans. Owner, Charles S. A. Booth, 4355 Frankford avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Apartment House (alts.), 4501-03 Larchwood avenue, Philadelphia, $12,500. Architect, private plans. Owner, Francis M. McAdams, 811 Finance Building, Philadelphia. General alterations. Permit granted.

Residences (4), West side Pierce street, North of Duncan street, $4,000 each. Architect, private plans. Owner, Alexander Jastryembski, 4539 Bermuda street, Philadelphia. Brick, 2 stories, 15x52 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residence (add.), 4743 Melrose street, Philadelphia, $3,000. Architect, private plans. Owner, Walter Fralkowski, 4743 Melrose street, Philadelphia. Brick, 2 stories, 12x14 feet, slag roof, pine floors. Permit granted.

Residences (2), 6111-13 Dittman street, Philadelphia, $3,600 each. Architect, private plans. Owner, Fred W. Dietrich, Northeast Corner Frankford avenue and Devereaux street. Brick, 2 stories, 17x10 feet, 14x38 feet,

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slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (27), North side Meridian street, West of Edmund street, $101,925. Architect, private plans. Owner, Thomas J. McGarvey, Torresdale and Cottman streets, Philadelphia. Brick, 2 stories, 15x24 feet, 12x10 feet, slag roof, pine floors, electric light. Permit granted.

Residences (94), Leon, Englewood streets and Frankford avenue, $4,000 each. Architect, private plans. Owner, Marco Marks, 4737 North Tenth street, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (42), Third, Fern and Spencer streets, Philadelphia, $234,400. Architect, private plans. Owner, Herman Britsch, 523 Nedro avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine and hardwood floors, hot water heat, electric light. Permit granted.

Residences (10), 531-49 East Cheltenham street, Philadelphia, $36,300. Architect, private plans. Owner, Charles Millett, 1507 Erie avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, electric light. Permit granted.

Apartment House, 2211 Green street, Philadelphia, $30,000. Architect, private plans. Owner, Marcus Mazer, 2213 Green street, Philadelphia. Brick, 4 stories, 10x18 feet, 16x59 feet and 16x33 feet, slag roof, hardwood and pine floors, hot water heat, electric work. Permit granted.

Hotel (alts.), 915-17 Walnut street, Philadelphia, $18,000. Architect, private plans. Owner, Joseph E. Becker, 411 Walnut street, Philadelphia. General alterations. Permit granted.

Residence, Southeast Corner Rowland and Fuller streets, Philadelphia, $4,000. Architect, private plans. Owner, Fred J. Blankenhorn, 8059 Rowland avenue, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (32), South side Luzerne street, East of M street, $150,000. Architect, private plans. Owner, C. A. Boardman, 1935 Church street, Philadelphia. Brick, 2 stories, 14x26 feet, 11x10 feet, slag roof, hardwood and pine floors, electric light. Permit granted.

Residences (9), 7931 and 7947-61 Hasbrook avenue, Philadelphia, $5,000 each. Architect, private plans. Owners, Betz Brothers, 6915 Rising Sun avenue, Philadelphia. (1) Frame, 1½ stories, 26x38 feet, (8) brick, 2 stories, 16x42 feet, pine and hardwood floors, electric work. Permit granted.

Residence, South side Eastwick avenue, East of Eighty-seventh street, Philadelphia, $4,500. Architect, private plans. Owner, Eugene Gibbs, 1722 North Woodstock street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot air heat, electric light. Permit granted.

Residences (4), South side Hartel street, East of Erdrick avenue, $4,200 each. Architect, private plans. Owner, A. W. J. Williams, 3011 Lindley avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (2), East side Hegerman, North of Levick street, $4,000 each. Architect, private plans. Owner, A. W. J. Williams, 3011 Lindley avenue, Philadelphia. Brick, 2 stories, 16x37 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (2), North side E street, East of Eightieth street, Philadelphia, $4,000 each. Owner, Mochrina Thilik, Eightieth street and Avenue E, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, pine floors, hot air heat, electric light. Permit granted.

Greenhouse, North side Maple avenue, West of H street, Philadelphia, $3,000. Architect, private plans. Owner, William J. Smith, on premises. Iron and wood, 1 story, 35x151 feet. Permit granted.

Store and Storage (add. and alts.), 520 North Second street, Philadelphia, $2,500. Architect, private plans. Owners, D. and B. Jaffe, 600 North Second street, Philadelphia. Brick, 1 story add., 20x60 feet. Permit granted.

Shelter Building, Third, Fourth, Shunk and Oregon avenue, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Works, Bureau of Recreation, Philadelphia. Low bidders: McCormick & Lenham, 2403 South Broad street, $5,995; S. Sidney Lewis, Real Estate Trust Building, Philadelphia, $6,178. Electric, Mitchell & Co., 1337 McFerron street, $298. Plumbing, Jacob Bugger, 2124 East Cumberland street, $1,117.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence, Southeast Corner Dickinson and Point Breeze avenue, $7,000. Architect, private plans. Owner, H. Allen, 1449 Point Breeze avenue, Philadelphia. Brick, 2 stories, 20x31 feet, hardwood and pine floors, electric work. Contract awarded to A. J. & G. Cont. Co., 2339 South Eleventh street, Philadelphia.

Residence (add. and alts.), 1716-18 Jefferson street, Philadelphia, $2,900. Architect, private plans. Owner, H. L. Crozier, 1710 Jefferson street, Philadelphia. Brick, 1 story add., 13x9 feet, general alterations. Contract awarded to H. D. Mecker, 915 North Nineteenth street, Philadelphia.

Oil Station, Northwest Corner Kensington avenue and N street, Philadelphia, $2,000. Architect, private plans. Owner, D. J. Rafferty, 2034 East Atley street, Philadelphia. Brick and stucco, 1 story, 15x15 feet. Contract

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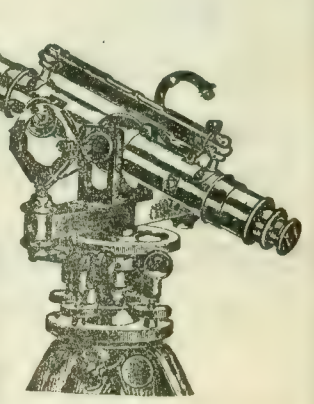
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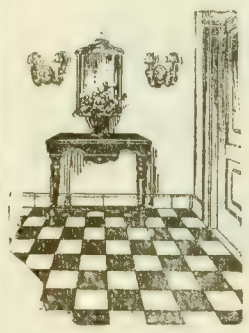
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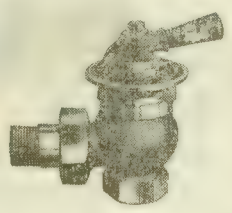
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awarded to W. J. Wilkie, 1152 East Sedgley avenue, Philadelphia.

Warehouse (add.), Front and Tasker streets, Philadelphia. Architect, private plans. Owners, William J. McCahan Sugar Refining & Molasses Co., Manuel E. Rionda, president, 101 South Front street, Philadelphia. Brick, steel, 1 story, 350x70 feet, slag roof, cement floors, rolled steel sash. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia, without competition.

Sisterhood (alts. and add.), Fifty-eighth, North of Walnut street, Philadelphia. Architect, Louis Levi, Real Estate Trust Building, Philadelphia. Owners, Congregation of Beth-El, on premises. Stone, limestone, brick, steel, 3 stories and basement, 50x92 feet (plumbing, heating, electric, dumb waiter reserved), slate roof, oak and cement and composition floors, safety treads, roof ventilators, metal weather strip, waterproofing, ornamental iron work, rolled steel sash and skylights, tile and marble work, metal lath, caulking, hardware. Contract awarded William Linker Co., 735 Cherry street, Philadelphia.

Hospital (alts.), Fortieth and Parrish streets, Philadelphia. Architect, Edgar V. Seeler, Franklin National Bank Building, Philadelphia. Owners, Women's Homeopathic Hospital of West Philadelphia, on premises. Composition floors, concrete, carpentry and mill work, plastering, brick work, painting and glazing (plumbing, heating and electric reserved). Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Reproduction of Mt. Vernon Sesqui-Centennial Grounds, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Y. W. C. A., Eighteenth and Arch streets, Philadelphia. Frame, 2 stories, 35x100 feet, shingle roof, pine floors, electric light. Contract awarded Frank E. Wallace, 337 South Camac street, Philadelphia.

Residence and Store (alts. and add.), 4006 West Girard avenue, $3,200. Architect, Edwin L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Philip Green, 4018 Girard avenue, Philadelphia. Brick, 1 story add., 13x10 feet, general alterations. Contract awarded to Max Rosenberg, 1616 North Thirtieth street, Philadelphia.

Miscellaneous School Work, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contracts awarded: Eighty-second and Lyons avenue, Philadelphia, Nelson Nedley Const. Co., Corn Exchange Building, Philadelphia, $463,452; plumbing, Thompson Brothers, 512 Buttonwood street, Philadelphia, $21,980; heating, William Ambrose, Levering and Umbria streets, $43,989; electric, Walker-Kepler, 531 Chestnut street, $18,583; ventilating, Mellon & Co., 4415 Ludlow street, Philadelphia, $2,680. Contracts awarded, Seventeenth and Folsom streets, Nelson-Pedley Co., 1510 Chestnut street, $316,362; plumbing, William Ambrose, Levering and Umbria streets, $12,980; heating, McClintock & Co., 5608 Race street, Philadelphia, $29,495; electric, Harry S. Mitchell, 1337 McFerran street, Philadelphia, $5,800; ventilating, A. & W. Wegmann, 2813 West Fletcher street, Philadelphia, $1,084. No. 20, William Langhorne, 10 South Eighteenth street, Philadelphia, $9,758. No. 21, plumbing, Philadelphia Piping Co., Philadelphia, $6,900. No. 22, heating, F. Wackenhut, 2416 Frankford avenue, $690. No. 23, William Langhorne, 10 South Eighteenth street, Philadelphia, $8,818. No. 24, plumbing, Bulman Brothers, Fifth and Cumberland, $8,084. No. 25, heating, McClintock & Co., 5609 Race street, $265. No. 26, Haverstick & Borthwick, Schaff Building, $8,340. No. 27, plumbing, Bulman Brothers, Fifth and Cumberland, $5,844. No. 28, heating, McClintock & Co., 5609 Race street, $582.87. No. 29, Mitchell Brothers, 2125 Race street, Philadelphia, $8,700. No. 30, plumbing, Bulman Brothers, Fifth and Cumberland streets, $4,444. No. 31, heating, McClintock & Co., 5609 Race street, $296. No. 32, William Langhorne, 10 South Eighteenth street, Philadelphia, $4,908. No. 33, plumbing, Bulman Brothers, Fifth and Cumberland streets, $3,394. No. 34, heating, Fred Wackenhut, 2416 Frankford avenue, $223. No. 35, William Langhorne, 10 South Eighteenth street, Philadelphia, $8,899. No. 36, plumbing, S. Faith, 2427 Pennsylvania avenue, Philadelphia, $5,339. No. 37, heating, Philadelphia Piping Co., Philadelphia, $477. No. 38, William Langhorne, 10 South Eighteenth street, Philadelphia, $7,521. No. 38, plumbing, Bulman Brothers, Fifth and Cumberland streets, $5,364. No. 40, heating, McClintock & Son, 1937 Ridge avenue, $330. No. 41, William Langhorne, 10 South Eighteenth street, Philadelphia, $6,708. No. 42, plumbing, Bulman Brothers, Fifth and Cumberland streets, $5,144. No. 43, heating, McClintock & Co., 5609 Race street, Philadelphia, $365. No. 44, William Langhorne, 10 South Eighteenth street, Philadelphia, $6,710. No. 45, plumbing, S. Faith & Son Co., 2427 Pennsylvania avenue, Philadelphia, $5,596. No. 46, heating, McClintock & Co., 5609 Race street, $421. No. 47, S. Sidney Lewis, Real Estate Trust Building, Philadelphia, $9,178. No. 48, plumbing, Bulman Brothers, Fifth and Cumberland streets, $4,724. No. 49, heating, McClintock & Co., 5609 Race street, Philadelphia, $403. No. 50, William Langhorne, 10

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South Eighteenth street, Philadelphia, $7,273. No. 51, plumbing, Thompson Brothers, 512 Buttonwood street, $5,100. No. 52, heating, McClintock & Co., 5609 Race street, $430. No. 60, plumbing, Bulman Brothers, Fifth and Cumberland streets, $9,124. No. 61, heating, McClintock & Co., 5609 Race street, $904. No. 63, electric, J. F. Buchanan, 1904 Sansom street, $476. No. 64, electric, Walker-Kepler, 531 Chestnut street, $765. No. 65, McClintock & Co., 5609 Race street, Philadelphia, $825.

Residence and Store, 319 Spruce street, Philadelphia, $6,000. Architect, private plans. Owner, Morris Ruben, 313 Spruce street, Philadelphia. Brick, 2 stories, 20x86 feet, slag roof, pine floors, electric work. Contract awarde dto H. Blumenthal, 313 Spruce street, Philadelphia.

Building (add. and alts.), 2120 Ridge avenue, Philadelphia, $3,200. Architect, private plans. Owner, I. Weiner, 2120 Ridge avenue, Philadelphia. Brick, 1 story add., 10x12 feet, general alterations. Contract awarded to I. Alterman, 5400 B street, Philadelphia.

Machine Shop, Southeast Corner Third and Cayuga streets, Philadelphia, $20,000. Architect, private plans. Owner, O. W. Hoffman, on premises. Brick, 1 story, 120x108 feet. Contract awarded to William Steele & Sons Co., 219 North Broad street.

Store and Residence (add. and alts.), 5708 Market street, Philadelphia, $10,000. Architect, private plans. Owner, G. T. Pflaumer, 5706 Market street, Philadelphia. Brick, second and third story add., 14x14 feet, general alterations. Contract awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

Residence and Repairs to Garage, Ford road, East of Monument avenue, $8,000. Architect, private plans. Owner, Mary E. McGill, Hazlehurst avenue, Merion, Pa. Brick, 2 stories, 22x25 feet, hot water heat, electric light, general fire repairs to garage. Contract awarded to R. J. Whiteside & Sons, 2115 Wallace street.

Office and Residence (add.), 2305 Frankford avenue, Philadelphia, $5,600. Architect, private plans. Owners, Kensington Post, No. 68, on premises. Brick, 3 stories add., 15x15 feet. Contract awarded to Harold E. Miller, 2528 Coral street, Philadelphia.

Residences (6), South side Lefevre street, West of Belgrave street, $3,500. Architect, private plans. Owner, John Gabrillerwez, 3415 Benner street, Philadelphia. Brick, 2 stories, 15x43 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Alexander Jastryembski, 4539 Bermuda street, Philadelphia.

Building (repairs), 6017 Ross street, Philadelphia, $2,950. Architect, private plans. Owner, Leandri Angelina, 336 East Price street, Philadelphia. General fire repairs. Contract awarded to Charles Sine, 5518 American street, Philadelphia.

Building (add. and alts.), Northeast Corner Twentieth and Porter streets, $2,000. Architect, private plans. Owner, L. Jureso, Sixth and Moore streets, Philadelphia. Brick, 1 story add., 9x14 feet, general alterations. Contract awarded to Frank Lucci, 1603 Ellsworth street, Philadelphia.

Residence, Northeast Corner Eighth and Chelten avenue, Philadelphia, $20,000. Architect, private plans. Owner, William Conners, 2001 North Twenty-third street, Philadelphia. Stone, 3 stories, 42x27 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Joseph S. Creamer, 1739 North Twenty-sixth street, Philadelphia.

Sesqui Restaurant, South side Packer avenue, East of Eighteenth street, $75,000. Owner, H. Mueller, Munich, Germany. Frame, 1 story, 164x262 feet. Contract awarded to F. Daepner, Koenigsburg, Germany.

Residence, 5845 Germantown avenue, Philadelphia, $25,700. Architects, Lippincott & Schaef, 11 South Sixteenth street, Philadelphia. Owner, Benjamin Lewis, care of architects. Brick, 2 stories, 24x49 feet, 40x24 feet, hardwood and pine floors, electric lighting, tile work. Contract awarded to Louis Rosengarten, Otis Building, Philadelphia.

Residence, South side Fulmer and Bustleton avenue, Philadelphia, $8,000. Architect, private plans. Owner, S. Woodhouse, 640 Rhawn street, Philadelphia. Brick, 2 stories, 20x30 feet, hardwood and pine floors, electric light. Contract awarded to Rush Brothers, 4682 Darrah street, Philadelphia.

Residence and Store (add. and alts.), 321 South Third street, Philadelphia, $5,000. Architect, private plans. Owner, S. Grandosky, on premises. Brick, 3 stories add., 11x32 feet, general alterations. Contract awarded to M. Dietchman, 2317 South Franklin street, Philadelphia.

Garage, South side Rochelle avenue, East of Retta street, Philadelphia, $3,200. Architect, private plans. Owner, J. W. Yates, 3565 Retta street, Philadelphia. Brick, 1 story, 49x22 feet, slag roof, cement floors, electric work. Contract awarded to C. M. Swartley & Son, 6835 Ridge avenue, Philadelphia.

Store and Storage (add.), 2934 North Twenty-second street, Philadelphia, $3,000. Architect, private plans. Owner, Tony Gaspero, 2930 North Twenty-second street, Philadelphia. Brick, 2 stories add., 15x35 feet. Contract awarded to Galtmo Salvato, 2211 North Front street, Philadelphia.

Residences (2), 8133-35 D street, Philadelphia, $15,000. Architect, private plans. Owner, Gus Gross, 316 Loney street, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Neveling Brothers, 121 Sylvania avenue, Rockledge, Pa.

Apartment (add. and alts.), 5501 Chester avenue, Philadelphia, $11,000. Architect, private plans. Owner, Kain Ellis, 419 Arch street, Philadelphia. Brick, 4 stories add., 17x30 feet, general alterations. Contract awarded to Charles Chapman, 1741 North Lindenwood street, Philadelphia.

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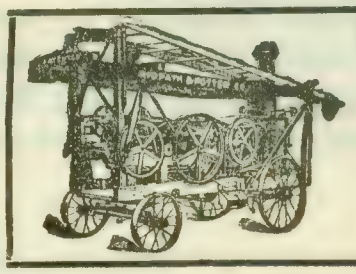
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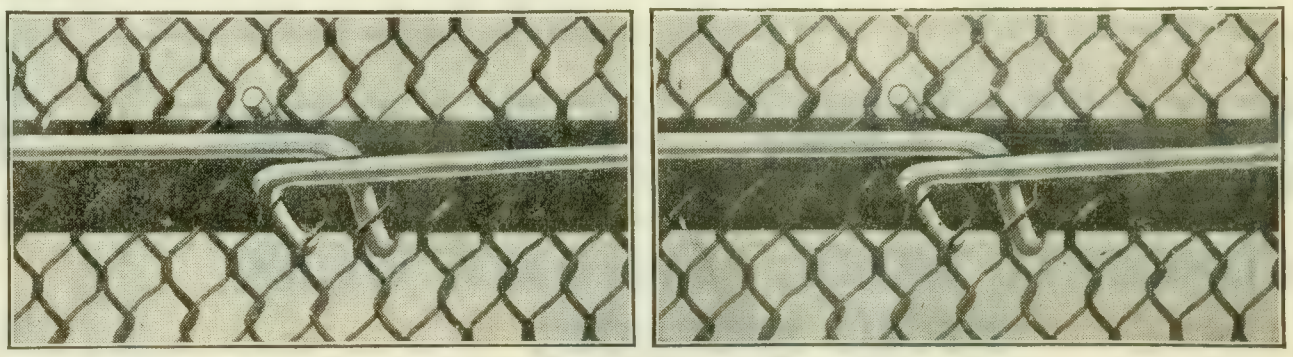
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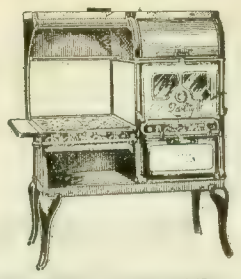
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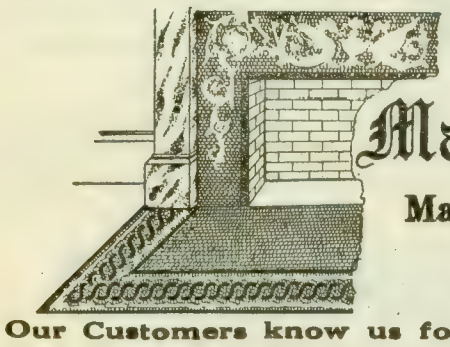
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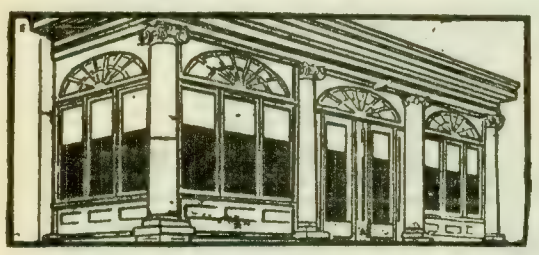
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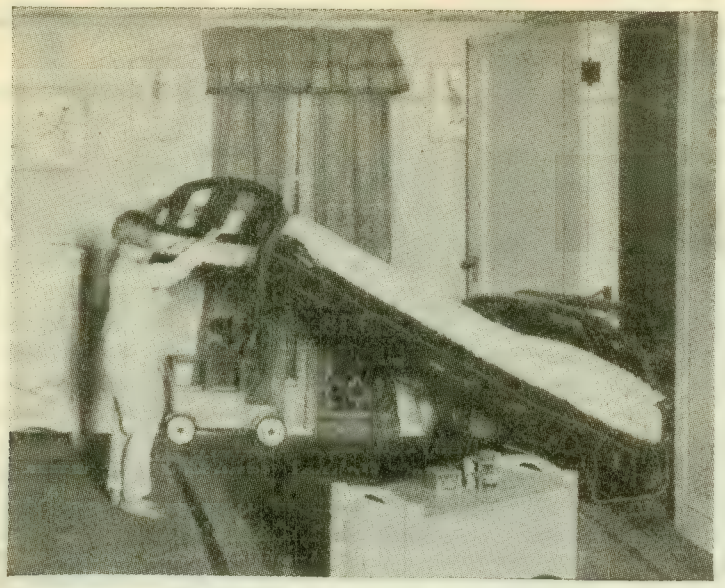
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east Corner Germantown avenue and Somerset streets, Philadelphia, $6,000. Owner, John M. Beidler, 2810 Germantown avenue, Philadelphia. Brick, 1 story add., 16x7 feet, general alterations. Contract awarded to Frank H. Fitt, 5753 North Fifth street, Philadelphia.

Residence, Northwest Corner Tyson and Frontenac streets, Philadelphia, $5,750. Architect, private plans. Owner, R. R. Hood, Jr., 1036 East Tioga street, Philadelphia. Brick, 2 stories, 34x36 feet, hardwood and pine floors, electric work. Contract awarded to Frederick Scheible, 3467 Jasper street, Philadelphia.

Residence and Store (repairs), 2114 North Front street, Philadelphia, $3,400. Architect, private plans. Owner, Bill Victor, 1620 South Fifty-sixth street, Philadelphia. General fire repairs. Contract awarded to David Goldman, 1617 South Orkney street, Philadelphia.

Machine Shop (add.), East side Blabon street, North of Hunting Park avenue. Architect, private plans. Owners, Link Belt Co., Hunting Park avenue and Blabon street, Philadelphia. Brick, 1 story add., 44x146 feet. Contract awarded to William Steele & Sons Co., 219 North Broad street.

Residence, Southeast Corner Shelmire and Dungan streets, Philadelphia, $6,500. Architect, private plans. Owner, Samuel Bertwister, 123 East Willard street, Philadelphia. Frame, 2 stories, 28x25 feet, shingle roof, hardwood and pine floors, electric light. Contract awarded to A. Irving Knickerbocker, 7508 Montour street.

Residences (2), 4521-23 Pierce street, Philadelphia, $5,000 each. Architect, private plans. Owner, Frank Presgko, 4526 Pierce street, Philadelphia. Brick, 2 stories, 16x52 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to Felix Tatko, 5103 Edmund street, Philadelphia.

Residence (add. and alts.), 150 North Twenty-fourth street, Philadelphia, $3,000. Owner, Richard W. Brooks, 2002 North Sixteenth street, Philadelphia. Brick, third story add., 16x19 feet, general alterations. Contract awarded to Joseph F. Trent, Nineteenth and Addison streets, Philadelphia.

Store and Residence (add.), 316 South Fifty-sixth street, Philadelphia, $3,000. Architect, private plans. Owner, Antonio Cantino, 316 South Fifty-sixth street, Philadelphia. Brick, 2 stories add., 16x15 feet. Contract awarded to Raffael Modingno, 3307 Wharton street, Philadelphia.

Store and Residence (add. and alts.), 2034 Smith street, Philadelphia, $3,000. Architect, private plans. Owner, Abe Silberman, on premises. Brick, 1 story add., 10x12 feet, general alterations. Contract awarded to J. Sosnowsky, 3129 Montgomery avenue, Philadelphia.

Residence (add.), 4034-36 Cambridge street, Philadelphia, $2,150. Architect, private plans. Owner, Michael Capotrio, 4034 Cambridge street, Philadelphia. Brick, 2 stories, 14x11 feet. Contract awarded to Antonio Oliviere, 711 League street, Philadelphia.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Low bidders: Bleighy street, Whitaker street, Gudknecht & Collisey, Philadelphia, $2,090.34. Callowhill street and Girard avenue, Thomas P. Lee, 5629 Lee street, Cherry street, Philadelphia, $21,135.37. Cayuga street and oherst, Dewees Brothers, Fifth and Fisher's avenue, Philadelphia, $57,-267.11. Cornelius street and others, S. C. Rotzell, Limekiln pike, $12,024.60. S street and others, Curtis Brohetrs, State road, Philadelphia, $2,709.40. Edna street and ohetrs, J. F. Nolen & Sons, 364 East Penn street, Philadelphia, $40,164.50. Frontenac street and Lorretta avenue, Dewees Broherst, Fifth and Fisher's avenue, Philadelphia, $4,400.60. Levick street, Torresdale avenue, Gudknecht & Collisey, Philadelphia, $3,086.40. Glen Echo road, McCallum street to Emlen, Louis Volenti, Philadelphia, $21,771.34. Philmont avenue, Bustleton avenue and Byberry road, Curtis Brohetrs, State road, Philadelphia, $7,-571.85. Summerdale avenue, Roosevelt Boulevard to Philadelphia and Frankford R. R., David Duffin, 1623 Lycoming street, Philadelphia, $8,985.40. Sydenham street and Sixty-gfth avenue, Joseph F. Molloy, Philadelphia, $5,046.93. Tyson avenue, Oakley street to Rising Sun avenue, Dewees Brothers, Fifth and Fisher's avenue, Philadelphia, $1,410.85. Durham street, Boyer to Devin street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $5,262.11. Erie avenue, Front to L street, Union Paving Co., Thirtieth and Locust streets, $175,992.58. Kingsessing avenue, Sixtieth and Sixty-third streets, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $50,-498.75. Limekiln pike, Champlost to Spencer, Barber Asphalt Co., 1600 Arch street, Philadelphia, $12,196.13. Ogontz avenue, Washington lane to Cheltenham, Barber Asphalt Co., 1600 Arch street, $71,921.36. Roanoke street, Abington to Hartwell lane, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $6,-144.90. East School lane, Market street to Kenyon street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $4,582.59. Stokley street, Westmoreland to Hunting Park avenue, Mack Paving & Cont. Co., Nicetown and C street, $26,757.80. Upland Way, Montgomery avenue to Fifty-seventh street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $23,934.63. Rakeling street, Large to Rutland, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $6,713.44. Twelfth, Webb street, Ontario to Schiller, Barber Asphalt Co., 1600 Arch street, $3,179.05. Wyncote avenue, Sixty-fifth to Sixty-sixth avenue, Barber Asphalt Co., 1600 Arch street, Philadelphia, $12,896.66. Seventeenth street, Pike to Luzerne, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $5,898.32. Seventeenth street, Edna to Widener Place, Mack Paving Co., Nicetown lane and C street, Philadelphia, $7,434.39. Thirty-second street, Overbrook avenue to City Line, Barber Asphalt Co., 1600 Arch street, Philadelphia, $19,989.29. Sixty-first, Baltimore to Cedarhurst avenue, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $2,899.60. Sixty-sixth, Lotus avenue to Woodbine, Barber Asphalt Co., 1600 Arch street, Philadelphia, $15,797.42. Sixty-sixth avenue, Sixteenth to Eighteenth, Mack Paving Co., Nicetown lane and C street, $24,-357.23. Allegheny avenue, Richmond to Edgemont, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $51,178. Carlisle street and others, Union Paving Co., Thirtieth and Locust streets, $44,080.10. Haverford avenue, Fortieth to Fifty-second street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $163,427.65. Lehigh avenue, Second to B street, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $92,290.16. Richmond, Dyott street to Lehigh avenue, Municipal Paving Co., 702 Catherine street, $68,116.50. Twelfth street, Girard to Columbia, United Paving Co., Real Estate Trust Building, $18,-750.48. Stewart street and others, United Paving Co., Real Estate Trust Building, $14,-005.92. Bridge street, Frankford to Tacony, United Paving Co., $68,359.35.

Pennsylvania Construction News

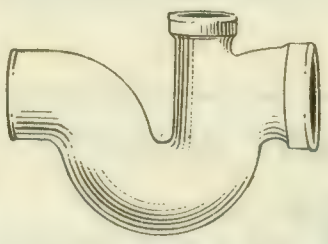
Building, Bradford, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, L. O. O. M., Bradford, Pa. Architects taking bids due April 27th. (Note extension.)

Hotel and Golf Course, Stroudsburg, Pa. Architect, Ferdinand Witt, American Legion Building, Stroudsburg. Owners, Hotel Monroe, Stroudsburg, Pa. Will be ready for bids about July 1st. Too early for details.

Nurses' Home, Lansdowne avenue, North of Garrett road, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets,

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Philadelphia. Owners, Delaware County Hospital, Dr. T. Clawson Beswick, Delaware County Hospital Headquarters, Stonehurst, Pa. Brick, 2 stories and basement, 48x36 feet (plumbing, heating, electric work reserved), slag roof, pine floors, tile and marble work, ornamental iron work. Owners taking bids due April 21st, 8 P. M.

Fire House, Spring Mills, Pa. Owners, Spring Mills Fire Co., Robert J. Smith, Spring Mills, Pa. Brick, steel, 2 stories, 40x80 feet. Work contemplated.

Paving and Sewer Work, Yeadon, Delaware County, Pa. Engineers, Damon & Foster, Upper Darby, Pa. Owners, Borough of Yeadon, T. H. Dann, secretary, Yeadon, Pa. Roadway improvement, terra cotta sanitary sewer on private rightway. Paving, certified check $100. Sewer, certified check $200. Owners taking bids due April 22nd, 8 P. M.

Residence (alts. and add.), New Garage, Strafford, Pa. Architect, J. Linard Connaro, 225 South Sydenham street, Philadelphia. Owner, Dr. S. Clapper, Strafford, Pa. Stone, 1½ stories, 25x20 feet, hot water heat, electric light, shingle roof, cement floors, plastering, painting and glazing, plumbing, hardware, carpentry and mill work. Architect taking bids.

Basement Church, Beverly Hills, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owners, United Presbyterian Church, Rev. C. C. Smtih, 3806 Hamilton street. Low bidder, B. J. Campbell, Flanders road, Overbrook, Pa.

School Building, Pottsville, Pa., $500,000. Owners, Board of Education, Pottsville, Pa. Work contemplated. Architect not yet selected.

Club Building (add.), Pottsville, Pa. Architect, D. H. Grootenbeer, Schuylkill Trust Building, Pottsville. Owners, Knights of Malta, Pottsville, Pa. Cinder block, 3 stories and basement, 25x170 feet. Architect will be ready for bids April 20th, due May 1st.

Residence, Curwen road, Rosemont, Pa., $40,000. Architect, not selected. Owner, Dr. J. C. Heisler, 3829 Walnut street, Philadelphia. Work contemplated. Maturity indefinite.

School, North Wales, Pa. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owners, Board of Education, North Wales, Pa. Preliminary plans in progress.

Residence and Garage, Wayne, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Allan C. Hale, Wayne, Pa. Brick, 2½ stories, 35x56 feet, hardwood floors, electric light, tile work. Plans in progress.

Residence and Garage, Haverford, Pa. Architect, Paul Cret, Otis Building, Philadelphia. Owner, C. H. Geist, Packard Building, Philadelphia. Brick, stone, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Residence and Garage, No. 235, Glenox road, Wynnewood, Pa. Architect, Richard A. Kerns, Jr., 109 South Twenty-second street, Philadelphia. Owner, W. Hall Brown, Franklin Trust Building, Philadelphia. Stone, 2½ stories, 70x31 feet, slate roof, hardwood floors, hot water heat, electric light, metal lath, tile work, slate roof. Plans in progress.

Jewish Community Center, Allentown, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owners, Jewish Community Center, Hyman Rockmaker, care of architect. Brick, steel, frame, 3 stories and basement, 88x160 feet, slag roof, hardwood, concrete, rubber and linoleum floors, safety treads, iron stairs, ornamental iron, tile and marble, metal lath, vapor heat, electric light. Plans in progress.

Store Front (alts.), Allentown, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, F. Heinz, 812 Hamilton street, Allentown, Pa. Plate glass, copper work, hardwood floors, general alterations. Plans in progress.

Grade School, Sharon Hill, Pa. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Sharon Hill School Board, Sharon Hill, Pa. Semi-fireproof, 2 stories. Preliminary plans in progress.

Fire Apparatus Building and Men's Quarters, Lakeland, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Board of Chosen Freeholders, Court House, Camden, N. J. Brick, slag roof, cement floors, plumbing, heating, concrete work. Revised plans in progress.

Mt. Pleasant Press Buildings (alts. and add.), Mulberry and Crescent streets, Harrisburg, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, J. Horace McFarland Co., on premises. Brick, cut stone, reinforced concrete, steel, 4 stories and basement, 100x102 feet, gypsum slab and saw-tooth slag roof, cement floors, hollow tile, safety treads, roof ventilators, metal lath, tin-clad and kalamein doors, bond, floor hardener, iron stairs, ornamental iron work, saw-tooth skylights, sheet metal windows, rolling steel shutters, steel partitions, elevator gates, Bloxnoend flooring, painting and glazing, elevator doors and frames, demolition, area gratings. Architects taking bids due April 27th before 11 A. M.

Residence and Garage, Golf View road, Merion Golf Manor, Pa. Architects, Wallace & Warner, Franklin Trust Building, Philadelphia. Owner, J. Edgar Barkman, 152 Grandview road, Ardmore, Pa. Brick, hollow tile, frame and stucco, 2½ stories, 80x37 feet 8 inches, shingle and tile roof, oak and pine floors, hot water heat, electric light, tile work. Architects taking sub-bids.

Residence (alts. and add.) and Garage, Prospect avenue, Melrose Park, Pa. Architect, Edwin Schoeppe, 316 South Fifteenth street, Philadelphia. Owner, I. C. Shalkop, 4102 Market street, Philadelphia. Residence alterations, stone, hardwood floors, rubber tile floors, sun porches, conservatory tile (3) baths, hot water heat, refrigeration, oil burning, plumbing, glazing, painting, plastering, electric light, garage, 1 or 2 stories, 2x830 feet, tile roof. Architect ready for bids due May 5th.

Apartment House, Merwood, Haverford Township, Pa. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Stephan Schifter, Merwood, Pa. Brick, terra cotta, steel, 3 stories and basement stores, 95x190 feet, slag and Spanish tile roof, oak floors, hollow tile, metal ceilings, iron stairs, wrought iron work, kalamein doors, metal lath, vapor heat, electric light, tile work. Owner taking sub-bids.

Store and Apartment (2), Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, F. F. Rogers, 1023 North Main street, Bethlehem, Pa. Brick, 3 stories, 45x73 feet, slag roof, pine floors, electric light, general alterations. Architect taking bids due April 27th.

Junior High School (add.), Willow Grove, Pa. Architect, T. Frank Miller, 1012 Walnut street, Philadelphia. Owners, School Board, Upper Moreland Township, Dr. J. K. Wood, president; Mrs. Maude H. Lenning, secretary, Willow Grove, Pa. Brick, reinforced concrete limestone, 1 story, 120x32 feet, 2 wings (plumbing, heating, electric and ventilating separate), metal lath, bond, ornamental iron work, tin and slate roof, maple and cement

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A deep firepot allows for deeper fuel bed and enables you to carry fire throughout the day or over night.

2.

The combustion ring. Latest improvement in round boilers. Prevents the lower portion of the fire bed from coming in contact with the chilling water section around the firepot, which chills the fire below the temperature of combustion. Gives the boiler a longer firing period and saves fuel.



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4.

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5.

High base which furnishes the proper air space between the hot ashes and the grates so as to give longer life to the grates.

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For Hot Water Heating

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The combustion ring surrounds the firepot to a height of 4½ inches above the grates, and it has increased the heating capacity alone of the boiler to equal that of a size larger in the old style type.

This ring prevents the lower portion of the firebed from coming in contact with the water sections which surround the firepot. The cool water returning from the radiators, enters both sides of the boiler at the bottom of the water section. This water, because it is much cooler than the fire, chills the fire around the sides of the pot, below the temperature of combustion. The result is, that the boiler requires more frequent attention. Also, partly burned fuel along the sides of the firepot is wasted because there is no fire under it to burn it and it settles down to the grates, passing to the ashpit when the fire is shaken.

But with the combustion ring, there is a clean, even-burning fire over the entire area of the firepot. There is no water back of the ring to draw the heat from the fire and to chill it. All of the fuel is completely consumed and more heat is produced from the same amount of coal burned.

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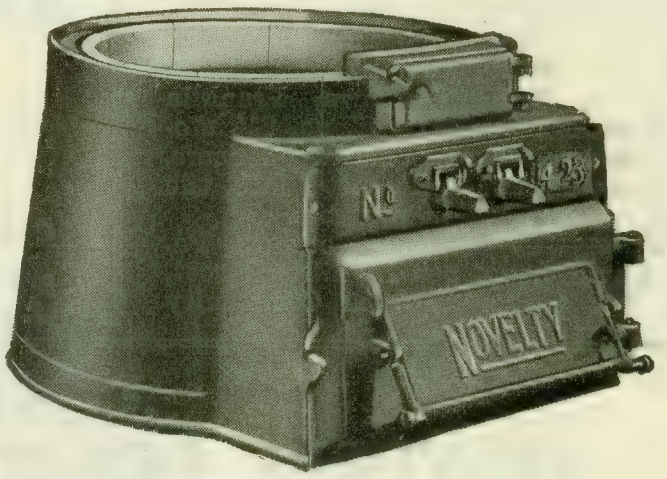


Illustration of Combustion Ring

floors. Owners taking bids due April 29th, 7 P. M.

Bank Building, Shamokin, Pa. Architect, W. Douden, 501 Seventh street, N. W., Washington, D. C. Owners, West End Bank, Shamokin, Pa. Architect taking bids due April 26th.

Residence and Garage, Merion Golf Manor, Ardmore, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, Louis A. Davis, Esq. (secretary), Land Title & Trust Co., Broad and Chestnut streets, Philadelphia. Stone, 2½ stories and basement, 27x80 feet, wood shingle roof, hardwood floors, electric light, 3 tile baths, incinerator. Architects taking bids due April 23rd at noon.

Garage, 7031 West Chester Pike, Pa. Architect, Sigmund J. Laschenski, Harrison Building, Philadelphia. Owners, Estate of Donald Melville, care of James Melville, on premises. Brick, steel, 1 story and 2 stories, 160x108 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, ornamental iron work. Owners taking new bids due as soon as possible.

Residence, Springfield, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, Joseph Frank, care of architect. Cinder block, stucco, 2½ stories, 26x36 feet, shingle roof, hardwood and pine floors, hot water heat, electric light, tile work. Architects taking revised bids due as soon as possible.

Tennis Court and Cottage, Erdenheim, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, George D. Widener, Erdenheim, Pa. Hollow tile, stucco, 2½ stories and basement, 160x115 feet, wing 56x20 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, ornamental iron work. Architect taking bids due April 22nd.

Church and School, Frackville, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, Annunciation of the B. V. M. Parish, Frackville, Pa. Brick, steel, hollow tile or cinder block, 1 and 2 stories, 150x100 feet, slag, tile and asbestos roof, yellow pine and maple floors, hollow tile, architectural terra cotta (heating, plumbing and electric reserved). Architects taking bids due April 29th.

Residences (8), Allentown, Pa. Architect, E. R. Bitting, 110 4 Hamilton street, Allentown, Pa. Owner, E. Candia, 389 Cedar street, Allentown, Pa. Brick, 2½ stories, 63x163 feet, slag roof, pine floors, hot water heat, electric light. Owner will build.

School, Hatboro, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Hatboro, Pa. Plans ready for contractors. Bids due April 30th.

Pennsylvania Contracts Awarded

Residence, Noble Vista, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Joseph T. Greenwood, Esq., Noble Vista, Pa. Stone, steel, 2½ stories and basement, 76x40 feet, shingle roof, oak and pine floors, plumbing, electric light, metal lath, tile work, rolled steel sash. Contract awarded Thomas C. Trafford, 1613 Sansom street, Philadelphia.

High School, Hazleton, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Hazleton School Board, D. I. Evans, secretary, Hazleton, Pa. Brick, steel, 2 stories and basement, 318x300 feet, composition roof, maple and cement floors, hollow tile, safety treads, roof ventilators, metal weather strip, dampproofing, ornamental iron, bond, metal lath, tile work (plumbing, heating, electrical work separate bids). Contract awarded to Central Const. Co., Seventh and Emerald streets, Harrisburg, Pa. Plumbing to R. F. Withers, New Castle, Pa. Electric to P. B. Eshelman, Lancaster, Pa.

Washington Grade School, Bethlehem, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of the City of Bethlehem, Pa. Brick, cut stone, 2 stories and basement, 59x37 feet, wing 100x23 feet, slate roof, cement and maple floors, plumbing, waterproofing and dampproofing, ornamental iron work, hollow metal sash, metal lath (heating, lighting, plumbing and ventilatin gseparate). Contract awarded H. A. Stoudt Co., Bethlehem, Pa.

Grade School, Crest avenue, Bethlehem, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Bethlehem, Pa. Brick, cut stone, steel, 1 story and basement, 159x57 feet, composition and slate roof, cement and maple floors, plumbing, roof ventilators, ornamental iron work, dampproofing, bond, hollow metal sash and doors, terrazzo work, metal lath (heating, lighting, plumbing and ventilating separate). Contract awarded Shepherd Const. Co., Wilkes-Barre, Pa.

Motoramp Garage, 28-34 North Fifth street, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Central Motoramp Co., on premises. Reinforced concrete, brick, steel, 4 stories and basement, 80x140 feet, slag roof (plumbing, heating, electric, sprinkler reserved), cement floors, hollow tile, elevators, safety treads, metal ceiling, shoring, waterproofing, ornamental iron work, bond, kalamein doors, rolled steel sash and skylights, tile work, metal lath. Contract awarded Hughes-Foulkrod Co., Commonwealth Building, Philadelphia.

Garage and Alts. and Add. to Residence, Gray's lane, Haverford, Pa. Architects, Furness, Evans & Co., 315 South Fifteenth street, Philadelphia. Owners, Estate of Allen Evans Deed, on premises. Cinder block, stucco, 1 story, 26x22 feet, asbestos asphalt roof (shingle), cement floors, plumbing, carpentry and mill work, plastering, painting and glazing, ornamental iron work, warm air heat, electric light. Contract awarded Milton W. Young, 2037 North Sixty-third street, Philadelphia.

Cottage, Pocono Manor, Pa. Architects, Savery & Scheetz, Stephen Girard Bldg., Philadelphia. Owner, Edward E. Wildman, 4331 Osage avenue, Philadelphia. Stone and frame, 2 stories, 33x24 feet, shingle roof, pine floors,

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These are actual bids recently submitted for the same job. They are not exceptional. They show why many good builders go broke. Correct estimating methods would eliminate such guessing and take much of the risk out of contracting. Particulars sent free to *bona fide* contractors.

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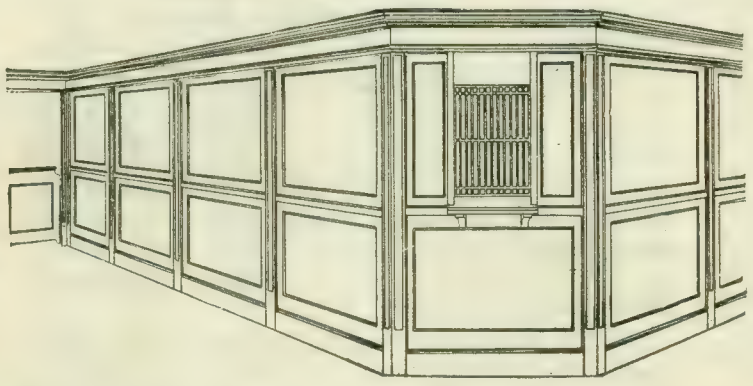
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electric right, tile work. Contract awarded B. H. Granacher, Scott River, Monroe County, Pa.

Residences and Garages (3), 212 Hillside road, 258 Dale road, 254 Hillside road, Wynnewood, Pa. Architect, Richard A. Kerns, Jr., 109 South Twenty-second street, Philadelphia. Owner, Margaret N. Stiles, care of architect. No. 212, brick, 2½ stories, 31x69 feet, slate roof, hardwood and cement floors, electric light, metal lath, tile work, hot water heat. No. 258, stone, 2½ stories, 25x70 feet, slate roof, hardwood and cement floors, metal lath, tile, electric light, hot water heac. No. 254, building block, stucco, 2½ stories, 23x18 feet, tile work, hardwood and cement floors, hot water heat, electric work. Contracts awarded Wynnewood Const. Co., Wynnewood, Pa.

Residence, Garage and Dormitory, Broadax, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, N. M. Seabrease, Packard Building, Philadelphia. Stone, frame, 1 and 1½ stories, 20x40 feet, 27x55 feet, 27x300 feet, shingle roof, pine floors, electric light. Contract awarded Melvin H. Grebe, Chestnut Hill, Pa.

Residence (alts. and add.), Leopard, Pa., $20,000. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Cameron Macleod, Leopard, Pa. Stone, 2½ stories, general alterations, heating and plumbing extensions, electric light, tile work, hardwood floors. Contract awarded William H. Parlaman, Paoli, Pa.

Country Club, Fitzwatertown, Pa. Architect, Philip H. Johnson, 1713 Sansom street, Philadelphia. Owners, Lulu Temple Country Club, on premises. Contract awarded H. H. Wehmeyer, 509 West Cumberland street, Philadelphia.

Residence, Noble Vista, Pa. Architect, Paul M. Hesser, 225 South Sixth street, Philadelphia. Owner, Joseph Shaw, Noble Vista, Pa. Stone, stucco, hollow tile, 2½ stories and basement, 28x47 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Contract awarded William J. Gruhler, 219 High street, Philadelphia.

Rectory, Rising Sun lane and Robbins avenue, Lawndale, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. William's Roman Catholic Church, Rev. William A. Moltey, on premises. Stone, cut stone, brick, steel, 3 stories and basement, 62x36 feet, slag roof, pine and cement, oak floors, painting and glazing, plumbing, hot water heat, electric light. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

Firehouse (alts. and add.), Lansdowne, Pa., $2.050.60. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Lansdowne Fire Co., Lansdowne, Pa. General alterations and additions. Contract awarded Lansdowne Const. Co., Lansdowne, Pa.

Church, Williamstown, Pa. Architect, Albert N. Dobbins, 1709 Arch street, Philadelphia. Owners, Methodist Episcopal Church, Williamstown, Rev. Shalkop, Williamstown, Pa. Brick, slate roof, pine and composition floors, vapor heat, electric light. Contract awarded Charles Batdorf, Williamstown, Pa.

Apartments (4), Stores (4), Collingdale, Delaware County, Pa. Architect, private plans. Owner, Joseph Materia, Secane, Delaware County, Pa. Brick, 2 stories, 20x52 feet each, slag roof, pine floors, hot water heat, electric light, tile work. Contract awarded G. Thomas Holloway, 27 South Sixth street, Philadelphia, who is taking sub-bids.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Westmoreland County, R-118, A-4034, Sec. 5, Madison Borough, Sewickly and Hempfield Townships. One course reinforced concrete. $39,819.58. Contract awarded to W. H. Nicely Const. Co., Ligonier, Pa.

Bedford County, Route 356, A-2816-3363, Londonderry Township. One course reinforced concrete. $227,496.23. Contract awarded to Charles Winters Const. Co., Butler, Pa.

Lebanon County, A-3582, Bethel Township. One course reinforced concrete. $34,812.74. Contract awarded to Davis & Andrews, Altoona, Pa.

Crawford County, R-447, A-3819, Sadsbury and Summit Townships, 11,525 feet. Either bituminous surface on concrete base or one course reinforced concrete. $100,466.85. Contract awarded to H. E. Bunce, Olean, N. Y.

New Jersey Construction News

Street Paving, Collingswood, N. J. Engineers, Remington & Vosby, 509 Cooper street, Camden, N. J. Owners, Borough of Commissioners, A. F. Usilton, Borough Clerk, Collingswood, N. J. Section A, concrete pavements, gutter and curbs, excavation of old macadam and earth, radius curb, cement sidewalks, storm water inlets, manholes, 15 inches, 18 inches, 24 inches, terra cotta pipe, guard fence. Certified check, $6,000. Section B. Bituminous pavement, concrete gutters, concrete curbs, radius curbs and reset curbs, cement sidewalks, storm water inlets, reconstruction inlets, manholes, 15-inch, 18-inch terra cotta pipe, scarring and grading, excavation of old macadam, emulsified asphalt, patching mixtures, 2½-inch trap rock, stone screening. Cercified check, $40,000. Owners taking bids due April 26th, 7 P. M. Deposit, $25. Refund, $15.

Garage, Southeast Corner Seventh and Linden streets, Camden, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Bridge Plaza Parking Garage, care of architect. Architects taking bids due April 29th.

Memorial High School, King's Highway, East Haddonfield, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Board of Education, W. Gentry Hodgson, president; B. M. Wilson, secretary, Lincolne avenue and Chestnut street, Haddonfield, N. J. Brick, cut stone, steel, reinforced concrete, 2 stories, balcony and basement, 211x16 feet, 98x72 feet, 48x30 feet (plumbing, heating, electric and ventilating separate), slag, composition, green slate roof, linoleum, cement and maple floors, hollow tile, safety treads, waterproofing and dampproofing, ornamental iron work, iron stairs, bond, rolled steel doors and skylights, tile, marble, terrazzo work, metal lath, monolithic floors, area grating, acoustical treatment. Owners taking bids due April 29th, 2 P. M. Certified check, 5 per cent. of bid. Deposit, $50. Refund, $35.

Almshouse and Tuberculosis Hospital (alts. and add.), New Lisbon, N. J. Architects, Herbert O. Ziegler, Drexel Building, Philadelphia, and Riverside, N. J. Owners, Burlington County, Board of Chosen Freeholders, Burlington. Brick, steel, precast stone, 2 stories and basement, 79x40 feet, tin, asbestos, shingle roof, pine and cement floors, painting and glazing. Low bidders: John Toth, Trenton, N. J., $17,616; H. B. Miller, Edgewater Park, N. J., $28,888.

School Building, South Center street, Merchantville, N. J. Owners, Board of Education, Building Committee, Messrs. Frey, Taylor & Davidson, Merchantville, N. J. Committee will receive competitive plans from architects.

High School, Ventnor, N. J. Architect, H. E. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, Ventnor, N. J. Fireproof. Architect selected.

Residence, Greenwood avenue, Trenton, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, Robert Wittenborn, 507 Ferry avenue, Trenton, N. J. Brick, steel, frame, 2½ stories, 30x45 feet, concrete and tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Stores and Apartments, Forty-second and Federal streets, Merchantville, N. J., $40,000. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Leon Harriton, care of architect. Brick, 3 stories, 36x60 feet, slag roof, hot water heat. Plans in progress.

Warehouse, Ferry avenue and Fillmore street, Camden, N. J., $25,000. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, J. J. Dawson, care of architect. Brick, 3 stories, 30x56 feet, slag roof, steam heat. Plans in progress.

County Asylum (add.), Northfield, N. J. Architect, J. H. Vaughan, Guarantee Trust Building, Atlantic City. Owners, Atlantic County Board of Freeholders, Northville, N.J. Fireproof, 3 stories, 32x109 feet, slate roof, composition floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, ornamental iron, iron stairs, bond, kalamein doors, steel sash, tile and marble, metal lath (heating, plumbing and electric separate). Will take bids due May 12th.

Residence, Pleasantville, N. J. Architect, W. A. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owners, Mrs. Augusta Robinson, Doughty and Washington streets, Pleasantville, N. J. Concrete block and frame, 2½ stories, 30x40 feet, shingle roof, pine floors, hot water heat, electric light, tile work. Owner will take sub-bids.

Residence and Garage, Cornwall and Atlantic avenues, Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owners, Yarmov & Shenkman, Guarantee Trust Building, Atlantic City, N. J. Brick, stucco, 2½ stories, 60x30 feet, tile roof, hardwood floors, hot water heat, electric light, metal lath. Owners will build.

Police Station, Pensauken Township, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Pensauken Township, Mr. Braumworth, chairman Building Committee, Delaware Gardens, Camden, N. J. Brick, 2 stories, 29x37 feet, slag roof, composition floors, tile and marble, Warren-Webster heat, electric light. Architects ready for bids.

Warehouse, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Crane Co., 836 South Michigan avenue, Chicago, Ill. Mill construction, steel, 2 and 1 stories, slag roof, cement floors, hollow tile, waterproofing and dampproofing, fire doors, steel sash, metal lath, electric light. Will be ready for bids in two weeks.

Residence, Greenwood and Cook avenue, Trenton, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, George Munschwaner, care of architects. Brick, steel, frame, 2½ stories, 30x45 feet, concrete and tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Will be ready for bids next week.

Hospital for Insane (add.), New Lisbon, N. J. Architect, Herbert O. Ziegler, Riverside, N. J., and Drexel Building, Philadelphia. Owners, Burlington County Board of Chosen Freeholders, A. C. Adams, Court House, Mt. Holly, N. J. Brick, reinforced concrete, 4 stories and basement, asbestos shingle roof. Ready for bids April 23rd.

Bank, Glassboro, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, First National Bank of Glass-

boro, N. J. Brick, reinforced concrete steel, 1 story, mezzanine and basement, 60x50 feet, slag roof, cement floors, plumbing, roof ventilators, painting and glazing, ornamental iron work, bluestone, cinder block, area gratings, metal lath, tile and marble work. Architect taking bids due April 22nd.

Fire Headquarters, Shop and Water Tower, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, Commissioners, City Hall, Trenton. Brick, steel, 2, 3 and 5 stories, 83x125 feet, 72x156 feet, Barrett roof, concrete, wood block, rubber tile and linoleum floors, metal window guards, hollow tile, terra cotta and limestone, ornamental iron, iron stairs, floor hardener, brass and bronze, hollow metal trim, fire doors, steel sash, tile work, metal lath, steam heat, electric light. Owners taking bids due May 1st.

School, Rumson, N. J. Architects, Simpson & Rolston, Inc., 622 Essex Building, Newark, N. J. Owners, The Rumson School, Inc., Rumson, N. J. Brick, reinforced concrete, granite, steel, 3 stories and basement, steam heat, electric light, metal lath, tile work, terrazzo work, variegated slate roof, maple and mastic floors, plumbing, bond, ornamental iron work, metal weather strip, ornamental plaster, area gratings. Architects taking bids due April 24th, 12 noon.

Bank Building, Toms River, N. J. Architect, Clinton Cook, Asbury Bank Building, Asbury Park, N. J. Owners, Ocean County Title Co., Toms River, N. J. Brick, limestone, steel, 2 stories and basement, 38x80 feet, slag roof, cement floors, steam heat, electric light, tile work, metal lath, ornamental iron work. Architect taking bids due April 24th.

Pier and Auditorium (add.), Ventnor, N. J. Architect, S. G. Dobbins, Segal Building, Atlantic City, N. J. Owners, City of Ventnor, Charles E. Reppetto, Ventnor, N. J. Frame, 1 story, 72x100 feet and 200x100 feet, tile roof, hardwood floors, metal partitions, electric light, tile work. Owners taking bids due April 26th.

Y. M. C. A. Building (Colored), Arctic and Disston aves., Atlantic City, N. J. Architect, J. Vaughan Mathias, Guarantee Trust Bldg., Atlantic City. Owners, Y. M. C. A. of Atlantic City, A. E. Chamberlain, 1315 Pacific avenue, Atlantic City, N. J. Fireproof, 4 stories and basement, 43x142 feet, slag roof, hardwood and concrete floors, hollow tile, steel sash, tile and marble work, metal lath (heating, plumbing and electric separate). Architect taking bids due April 26th.

School (alts. and add.), Beach Haven, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, Beach Haven School Board, M. Crammer, secretary, Beach Haven. Brick, steel, 2 stories, 80x25 feet, slate and slag roof, maple floors, safety treads, roof ventilators, steam heat, electric light, metal lath, bond, reinforced concrete stairs. Owners taking bids due April 26th.

Jewish Community Center, Atlantic City, N. J. Architect, J. Vaughan Mathis, Guarantee Trust Building, Atlantic City. Owners, Jewish Community Center, care of architect. Fireproof, 3 stories and basement, 130x80 feet, slag roof, concrete and hardwood floors, hollow tile (heating reserved), electric light, metal lath, tile and marble. Architect taking bids due May 20th.

Residences (7), 1526 to 1538 South Tenth street, Camden, N. J., $26,000. Architect, private plans. Owner, Edward Praiss, 1566 Mt. Ephraim avenue, Camden, N. J. Brick, 2 stories, various sizes, slag roof, pine floors, hoc water heat, electric light. Permit granted.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J.

Atlantic County, Route 3, Sec. 13A, widening White Horse Pike from Absecon to Egg Harbor. Excavation, double line reinforced concrete pavement, gravel shoulders.

Warren County, Route 5, Sec. 17, Buttzville-Belvidere. Earth excavation, hard rock excavation, borrow, double line reinforced concrete pavement. Owners taking bids due May 3rd at **11 A. M., Standard Time.** Deposit of $10. Certified check, 10 per cent.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J.

Camden County, Route 2, Sec. 9, Pensauken Creek to Union School House road. Low bidder, William Eisenberg, Camden, N. J., $106,-134.95.

Bergen County, Route 17, Sec. 2, Hackensack to Rutherford. Low bidder: H. Shapiro Const. Co., Albany, N. Y., $165,930.23.

New Jersey Contracts Awarded

Residences (2), 555-57 North Thirty-sixth street, Camden, N. J., $8,000. Architect, private plans. Owner, M. E. Deutchar, care of builder. Frame, 2 stories, 14x45 feet, slag roof, hot water heat, electric work. Contract awarded to Edward Christopherson, 603 North Thirty-second street, Camden, N. J.

School, Absecon, N. J., $54,600. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education, Absecon, N. J, Brick, limestone, reinforced concrete, steel, 2 stories and basement, 100x46 feet, slag roof, maple and cement floors, hollow tile. Contract awarded to Samuel Headley, Guarantee Trust Building, Atlantic City, N. J.

Building (add. and alts.), 561 Mickle street, Camden, N. J., $4,250. Architect, private plans. Owner, William J. Blaschke, Camden, N. J. Block, 1 story add., 16x35 feet, asbestos roof, excavating, iron work, lowering floor. Contract awarded to J. E. Mortimer, 331 Lawrence street, Camden.

Residence, Haddonfield, Pa. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Dr. O. L. Hinsky, Haddonfield; N. J. Brick, cinder block, 2½ stories, slate roof, hardwood, tile work, electric light. Contract awarded to H. C. Lishman, Haddonfield, N. J.

Factory, Camden, N. J., $175,000. Architect, private plans. Owner, MacAndrews & Forbes Co., Third and Jefferson Streets, Camden, N. J. Brick, steel, concrete, 3 stories, 56x360 feet, (heating, electric and sprinkler reserved), slag roof, concrete floors, rolled steel sash. Contract awarded to Barclay, White Co., 1713 Sansom street, Philadelphia.

Asylum for the Insane, Bridgeton, Cumberland County, N. J. Architect, Thos. Edward Ash, 1012 Walnut street, Philadelphia. Owner, Board of Freeholders, Cumberland Co., Bridgeton, N. J. Brick, cut stone, limestone, 2½ stories and basement, 100x48 feet, blue block slate roof, flagstone, pine and cement floors, retail ceilings, bond, ornamental iron work, (plumbing, heating, electric separate). Contract awarded H. H. Hankins, Bridgeton, N. J., $41,215.

County Surrogate Office, Mays Landing, N. J. Architect, J. H. Vaughan, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic Co. Board of Freeholders, Fred Willett, Chairman, Guarantee Trust Building, Atlantic City, N. J. Fireproof, 2 stories, 45x65 feet, slag roof, mineral composition floors, hollow tile, waterproofing, iron stairs, metal lath, tile work, heating extension, electric light. Contract awarded to Lam Building Co., Humphry Building, Atlantic City, N. J., $41,882.

Residence, Trenton, N. J. Architect, W. A. Klemann, First National Bank Bldg., Trenton, N. J. Owner, Edward Connolly, 1307 W. State street, Trenton, N. J. Brick, 2½ stories, 50x70 feet, slate roof, hardwood ffoors, tile work, Warren Webster heat, electric light. Contract awarded to General Const. & Cont. Co., First National Bank Building, Trenton, N. J.

Public Comfort Station, Farm No. 2, Cinaminson, N. J. Architect, Watson K. Phillips, 213 South Fifth street, Philadelphia. Owner, Campbell Soup Company, Camden, N. J. Brick, 1 story, 30x30 feet, shingle roof, cement floors, plumbing, septic tanks. Contract awarded John E. McVaugh, Riverton, N. J.

Stores and Apartments (3), Clinton and Hamilton street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Benjamin Robinson, 333 South

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Cook street, Trenton, N. J. Brick, limestone, steel, 2 stories, 40x100 feet, hardwood and tile floors, metal ceilings, steam heat, electric light, metal and wood lath, tile and marble, rolled steel sash. Contract awarded to Morris Laden, 903 Hamilton Avenue, Trenton, N. J.

Garage and Show Room and Apartment, 439 South Broad street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, George Rittmann, 444 South Broad street, Trenton, N. J. Fireproof, 3 stories, 40x120 feet, slag roof, hardwood and concrete floors, hollow tile, roof ventilators, steam heat, electric light, metal lath, tile work, metal skylights, iron stairs. Contract awarded to Fred Parker, 327 Calhoun St., Trenton, N. J.

Masonic Home, Trenton, N. J. Architects, Hill and Gollner, Broad St. Bank Building, Trenton, N. J. Owners, Trenton Masonic Assn., S. L. Kauffman, Broad Street Bank Building, Trenton, N J. Indiana limestone, steel, concrete, 3 stories and basement, 98x190 feet, flat roof, hardwood and composition floors, hollow tile, steam heat, electric light, metal lath, tile, marble and terrazzo work. Contract awarded to J. H. Morris & Co., 211 North Montgomery Street, Trenton, N. J.

Residences (15), 1019-47 Beideman Ave., Camden, N. J., $60,000. Architect, private plans. Owners, River Avenue Realty Co., Camden, N. J. Brick and block, 2 stories, 18x32 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to W. H. Townsend, 3129 River Road, Camden, N. J.

Residences (2) 835 and 869 Lois Avenue, Camden, N. J., $8,000. Architect, private plans. Owner, River Avenue Realty Co., Camden, N. J. Frame, 2½ stories, 24x34 feet, asbestos roof, pine floors, hot air heat, electric light. Contract awarded to W. H. Townsend, 3129 River Road, Camden, N. J.

Residences (3), 1616-18-29 Louis St., Camden, N. J., $14,000. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, M. Lawnicki, Camden, New Jersey. Brick, 2 stories, 14x47 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Adam Kempa, 1634 Pulaski Avenue, Camden, N. J.

Service Station, Northwest corner Eighteenth and River Road, Camden, N. J. $2500. Architect, Harold Allen, 526 Stevens Street, Camden, N. J. Owner, B. Koons, care of architect. Brick and block, 1 story, 18x24 fet, tile roof, cement work. oCntract awarded to H. C. Paschall, 1493 Bradley Avenue, Camden, N. J.

Bridges (2), over branches of Raritan River, New Jersey. Owners, State Highway Commission, A. Lee Grover, Secty., Broad St. Bank Building, Trenton, N. J. Hunterdon Co., Route No. 9 at M. P. 16.3 and 17.0, $21,473.10 Contract awarded to F. W. Schweirs, Jr., Co., 90 West Street, New York.

Miscellaneous Construction News

Academy Building and Convent, Newburgh, Orange Co., New York. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owner, Mt. St. Mary's on the Hudson, care of Mother Blanche, Newburgh, N. Y. Stone, steel, brick, concrete. Architect selected too early for details.

Road Work, Delaware. Owners, State Highway Dept., Dover, Del. Contract 58, Bear Station Crossing Elimination 0.85 miles. Low bidder: Stewart and Donohue, Wilmington, Del. Stone $9,084.40. Slag, $9,084.40. Contract CN-32, Ginn's Corner—Middletown, 3.5 miles. Low bidder: Stewart and Donohue, ilmington, Del. Metal Joint $168,133.70; Non-Metal Joint $167,116.20. Contract DK31: Rising Sun-Lebanon, 1.25 miles. Low bidder: George & Lynch, Dover, Del. Stone Concrete Metal) $36,037.00. (Non-Metal) $35,639.50. Slag Concertte (Metal) $35,164.00 (Non-Metal) $34,166.50.

W. Edward Pierce, Builder, formerly of 328 S. Juniper St., Philadelphia, has opened new offices at Room 313, 1600 Arch Street, Philadelphia.

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Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
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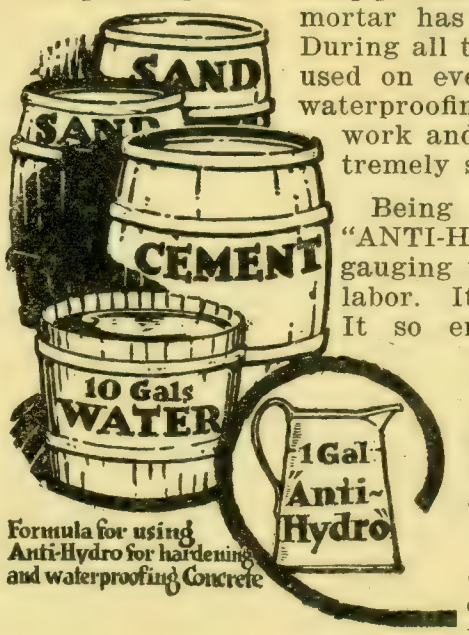
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April 28, 1926

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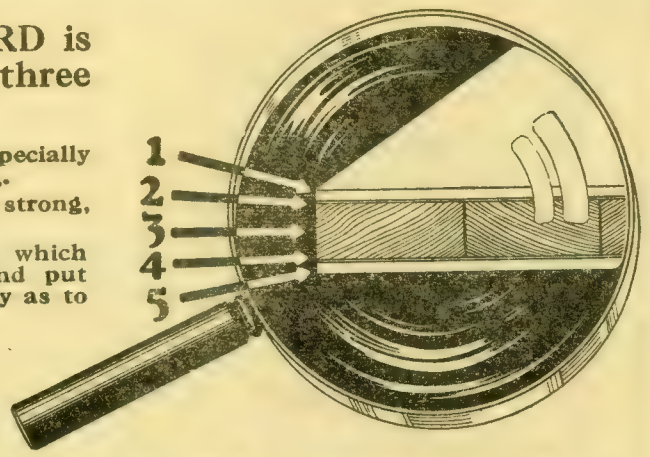
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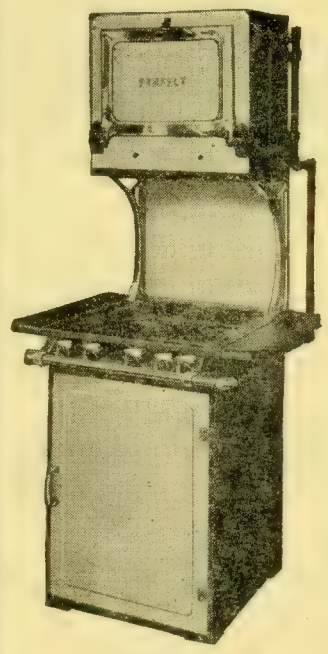
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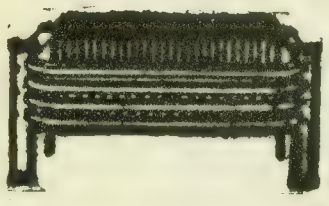
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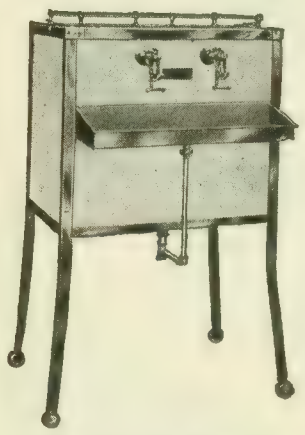
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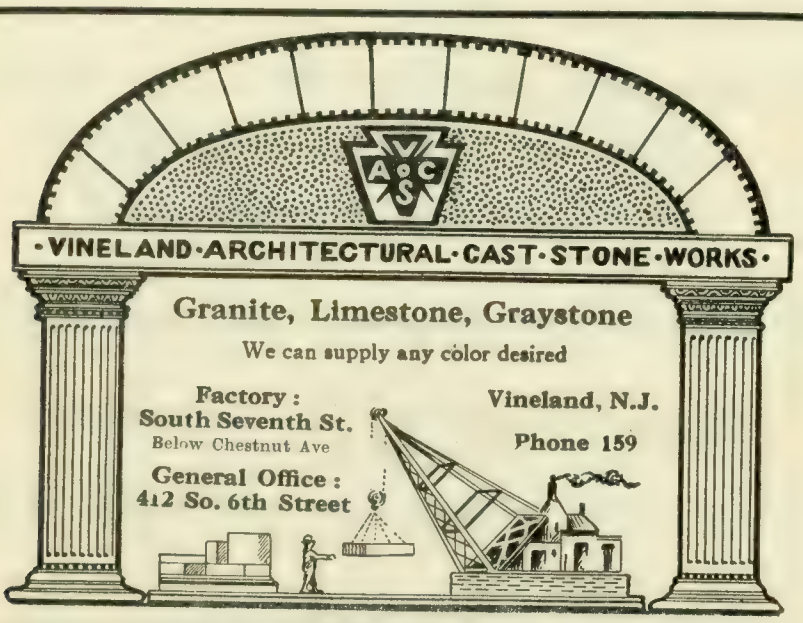
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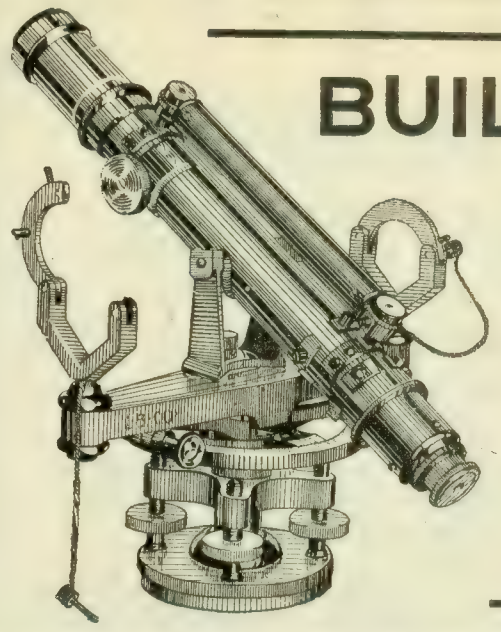
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BUILDERS' GUIDE

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VOLUME XLI
Number 17

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Church, Southeast Corner Twenty-sixth and Wharton streets, Philadelphia. Architect, name withheld. Owners, King of Peace Italian Roman Catholic Church, Rev. W. A. Pelosi, 409 Dickinson street, Philadelphia. Carpentry and mill work, pine floors, plastering. Plans in progress.

Apartment House (alts. and add.), 430 South Fortieth street, Philadelphia. Architect, Benjamin Shulman, 1722 Arch street, Philadelphia. Owner, L. Segal, care of architect. Brick, steel, 4 stories and basement, 40x35 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Plans in progress.

Residence, Scotford road, Germantown, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Walter Mellor, 205 South Juniper street, Philadelphia. Stone, 2½ stories, hot water heat, electric light, tile and marble work, slate roof, hardwood floors. Plans in progress.

Apartment House (alts.), 4071-73 Powelton avenue, Philadelphia. Architect, Benjamin Shulman, 1722 Arch street, Philadelphia. Owner, Joseph King, care of architect. Carpentry and mill work, plastering, painting nad glazing, electric light, tile work, metal lath, ornamental iron work. Owner taking bids.

Alterations, 1632 Pine street, Philadelphia. Architect, Benjamin Shulman, 1722 Arch street, Philadelphia. Owner, L. Weiser, care of architect. Hot water heat, electric light, metal lath, tile work, carpentry and mill work, painting and glazing, plastering, ornamental iron work. Architect ready for sub-bids in a few days.

Moving Picture Theatre, Fifty-fourth and Columbia avenue, Philadelphia. Architect, name withheld. Owner, A. Lefkovitz, 112 Franklin Trust Building, Philadelphia. Brick, steel, limestone, terra cotta, concrete, 1 story, 1000 seating capacity, slag roof, cement floors. Architect will be ready for bids in one week.

Building (alts. to Office Building), Northwest Corner Seventeenth and Sansom streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, J. D. Winchell, on premises. Plastering, electric work, stair work, heating alterations, painting, cut stone, carpentry and mill work, oak floors. Archt. taking revised bids due May 1st.

Stores and Offices, Southeast Corner Eighteenth and Chestnut streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations. Ready for bids.

Bank, Market and Edgewood streets, Philadelphia. Architect, J. Frank Bradley, 1121 Gilmore street, Philadelphia. Owners, William Penn Title & Trust Co., Mr. A. Berman, 6019 Market street. Brick, reinforced concrete, cut stone, steel, 3 stories and basement, 32x98 feet (plumbing, heating, electric reserved), slag roof, cement and linoleum floors, hollow metal sash, fire and kalamein doors, bond, ornamental iron work, steel toilet partitions. Architect taking revised bids due May 1st.

Sub-Station, 52-54 North Sixth street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., W. C. L. Eglin, vice-president, Tenth and Chestnut streets. Brick, reinforced concrete, cut stone, steel, 1 story, balcony and basement, 99x50 feet, slag roof, cement floors, steam heat, metal lath, rolled steel sash and skylights, bond, ornamental iron work, demolition. Architect taking bids due May 4th.

Factory, Worth and Kinsey streets, Philadelphia. Architects, Stearns & Woodnut, Stephen Girard Building, Philadelphia. Owners, Glove Dye Works, D. R. Greenwood, president, on premises. Reinforced concrete, steel, brick, 4 stories and basement, steam heat, electric light, slag roof, concrete floors. Architect taking bids due May 3rd.

Residences (41), Rising Sun and Cheltenham avenue, $144,700. Architect, private plans. Owner, Joseph Freedman, 4831 North Twelfth street, Philadelphia. Brick, steel, 2 stories and basement, 15x27 feet, 12x14 feet, slag roof, oak and pine floors, hot water heat, electric light. Owner will build.

Entrances to Exposition Grounds, Broad and Oregon avenue, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Sesqui-Centennial Exposition, 513 Chestnut street, Philadelphia. Metal lath and stucco, 1 story, 7x9 feet, (2 buildings), carpentry, plate glass, mill work, painting, slag roof, pine floors, dampproofing. Owners taking bids.

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Residence, 737-39 East Penn street, Philadelphia. Architect, L. E. Binns, 119 South Fourth street, Philadelphia. Owner, Charles D. Trois, 743 East Penn street, Philadelphia. Double duplex residence; 2 stories, 32x80 feet, tile baths, hot water heat, hardwood floors, tile roof, stone and brick, electric light. Work contemplated.

Office Building (interior alts.), Southeast Corner Fifteenth and Market streets, Philadelphia. Architect, private plans. Owners, Cassatt & Co. and Bank of North America & Trust Co., care of Mr. Hobson, 306 Commercial Trust Building, Philadelphia. Consists of new barber shop and rearrangement of interior tile and marble, cabinet work, terrazzo floors, plumbing. Plans in progress.

Residences (92), Erie avenue, West of Richmond street, Philadelphia. Architect, private plans. Owner, Bernard Watman, 1212 Real Estate Trust Building, Philadelphia. Brick, steel, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Owner taking sub-bids.

Factory, Fifty-seventh and Lancaster avenue, Philadelphia. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owners, John M. Driver & Co., 1644 North Fifty-fifth street, Philadelphia. Brick, reinforced concrete, steel, cast stone, 1 story and 2 stories, 275x81 feet, asbestos built-up roof, cement floors, painting and glazing, roof ventilators, waterproofing, ornamental iron work, hollow metal doors, rolled steel sash and shutters, sprinkler system. Architects taking revised bids due April 30th.

Building (alts.), Southeast Corner Eighteenth and Chestnut streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1432 South Penn Square, Philadelphia. Excavation, brick work, concrete and cement work, hollow tile, cut stone, iron work, sheet metal work, plastering, metal lath, painting and glazing, sand blasting, plumbing, mail chute, electric work (tile work reserved). Architect taking bids due May 3rd.

School (alts. and add.), Forty-seventh and Springfield, Philadelphia. Architects, Henry D. Dagit & Co., 1329 Race street, Philadelphia. Owners, St. Francis de Sales Church, Rt. Rev. M. J. Crane, on premises. Stone, limestone, 2 stories and basemene, 30x50 feet, slag roof, pine and cement floors, plumbing, plastering, painting and glazing, roof ventilators, shoring, plumbing, plastering, architectural terra cotta, ornamental iron work, bond, electric light, tile, marble and terrazzo work, metal lath, ornamental plaster, demolition, hollow metal doors anr sash. Architects taking revised bids due April 29th.

Warehouse, Tenth and Locust streets, Philadelphia. Architect, R. B. Benckert, Bellvue Court Building, Philadelphia. Owners, Horn & Hardart, 214 South Tenth street, Philadelphia. Architect taking bids due May 4.

Residences (4), East side Dittman street, North of St. Vincent street, $15,600. Architect, private plans. Owner, H. Gercke, 3532 Princeton street, Philadelphia. Brick, 2 stories, 16x28 feet, 13x14 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residence, Southwest Corner Whitaker and Tudor streets, Philadelphia, $5,000. Architect, private plans. Owner, Harry Gorelick, 2427 North Douglass street, Philadelphia. Brick, 2 stories, 16x43 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Miscellaneous Work, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due May 4th, 11 A. M. (Eastern Standard Time). Sanitary improvements, painting, inside and outside, repairs to roofs, general repairs, etc., various schools. Repairs to flag poles, wire screens, thermostats, moving picture machine and booth, cement work and curbing, elevator, various schools.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 232 City Hall. Owners taking bids due April 27th, 11 A. M. (Eastern Standard Time). Grading, asphalt paving, asphalt repaving and resurfacing, redressed granite block repaving, grading, paving and repaving, Leverington avenue and Flat Rock road, country road improvement. Widening Tenth and Sixteenth streets. Furnishing asphalt paving mixtures and vitrified blocks, paving and repaving certain alleys, oil for mosquito elimination. Certifie dcheck 5 per cent. of bid.

Residences (2), Solly avenue, West of Loretta street, Philadelphia, $6,500 eachh. Architect, private plans. Owner, Edward Seschwan, on premises. Stone and frame, 2 stories, 26x47 feet, hot water heat, electric light, hardwood and pine floors. Permit granted.

Refinery (add.), East side Penn street, Laurel to Shackamaxon street, Philadelphia, $6,000. Architect, private plans. Owners, Pennsylvania Sugar Refinery Co., 1037 North Penn street, Philadelphia. Brick, second and third story add., 30x60 feet and 30x126 feet. Permit granted.

Residence, 4455 Livingston street, Philadelphia, $6,000. Architect, private plans. Owner, D. D. Siachowski, 2344 Orthodox street, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof,

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hardwood and pine floors, hot water heat, electric light. Permit granted.

Garage, 4329-31 North Seventh street, Philadelphia, $2,500. Architect, private plans. Owner, Edward B. Miller, 3935 North Marine street, Philadelphia. Brick, 1 story, 26x17 feet 6 inches, slag roof, cement floors. Permit granted.

Residences (4), 4427-29-31-33 North Lawrence street, Philadelphia, $18,800. Architect, private plans. Owner, Paul Trumboli, 4435 North Lawrence street, Philadelphia. Brick and stone, 2 stories, 14x30 feet, 13x14 feet, electric light, slag roof, pine floors. Permit granted.

Residences (2), North side Pattison avenue, East of Broad street, $12,000. Architect, private plans. Owner, John H. McClatchey, Land Title Building, Philadelphia. Brick, frame, 2 stories, 40x45 feet. (Home Electric, Sesqui Exhibit.) Permit granted.

Office and Shop, 1908 North Marshall street, Philadelphia, $10,000. Architect, private plans. Owner, Edwin E. Hollenback, 1804 Brandywine street, Philadelphia. Brick, 2 stories, 24x58 feet, 24x26 feet, slag roof, electric work, hollow pine floors. Permit granted.

Residences (2), Veree road, Faunce and Afton streets, Philadelphia, $10,000 total. Architect, private plans. Owner, Jacob Hansen, Afton street and Veree road, Philadelphia. Frame, 2 stories, 24x25 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Laboratory (add.), 1108 Spruce street (rear), Philadelphia, $4,000. Architect, private plans. Owner, Isaac Magee, 1108 Spruce street, Philadelphia. Brick, 1 story, 16x44 feet, slag roof, electric lighting. Permit granted.

Residences (60), 2700-26 Creston street and 2701-27 Creston street; 2700-26 and 2701-33 Higbee street, $306,000. Architect, private plans. Owners, Smith & Schmek, 800 West Erie avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, electric lighting. Permit granted.

Residence, South side Shawmont avenue, East of Ridge avenue, $10,000. Architece, private plans. Owner, Harmon Robinson, Jr., 7219 Ridge avenue, Philadelphia. Frame, 2 stories, 42x24 feet, shingle roof, hardwood and pine floors, hot air heat, electric light. Permit granted.

Residences (2), South side Gillingham street, East of Hedge street, $7,500 total. Architect, private plans. Owner, Thomas Nelson, 4525 Hedge street, Philadelphia. Brick, 2 stories, 35 x irregular and 14x34 feet, slag roof, pine floors, electric light. Permit granted.

Garage, West side Kemble street, North of Nedro avenue, Philadelphia, $4,000. Architect, private plans. Owner, Emil P. Stahl, 5207 North Third street, Philadelphia. Brick, 1 story, 122x33 feet, slag roof, cement floors, electric light. Permit granted.

Residences (115), Whitaker, Smylie, F, Herkness, Ruscomb streets and Jericho road, Philadelphia, $700,000. Owners, Independent Realty Co., Elrae Building, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (24), Gale street and Rising Sun avenue, Philadelphia, $112,200. Architect, private plans. Owners, S. & G. J. Herman, 430 Duncannon street, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine and hardwood floors, hot water heat, electric light. Permit granted.

Residences (7), West side Shelburne street, South of Robbins avenue, $28,200. Architect, private plans. Owner, Joseph M. Schorn, 901 Unruh street, Philadelphia. Brick, 2 stories, 15x38 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (2), 1125-27 Herbert street, Philadelphia, $6,000 each. Architect, private plans. Owner, A. H. Coale, 4134 Orchard street, Philadelphia. Brick, 2 stories, 16x30 feet, 12x13 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, South side Hofnagle street, West of Castor road, $5,500. Architect, private plans. Owner, G. F. Hanson, Castor road and Rhawn street, Philadelphia. Frame, 1 story, 26x38 feet, shingle roof, hardwood and pine floors, electric light. Permit granted.

Boiler Room, Northeast Corner Sixty-fourth and Lebanon avenue, Philadelphia, $5,000. Architect, private plans. Owners, Lewis Jones, Inc., on premises. Stone, 1 story, 86 feet 6 inches x 41 feet. Permit granted.

Bridge Equipment, Contract No. 29A, Delaware River Bridge, Philadelphia. Owners, Delaware River Bridge Commission, 806 Widener Building, Philadelphia. Toll houses and toll booths and two scales, with equipment. Owners taking bids due May 5th, 1.30 P. M. (Standard Time). Deposit, $25, refunded. Certified check, $5,000. Bond, 50 per cent. of contract.

Substructure, Jackson Street Pier, No. 80, South Wharves, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, Pier No. 4, South Wharves, Philadelphia. Low bidders: McLean Const. Co., 80 South Wharves, Philadelphia. Bid A, $985,000; B, $55,000; C, $760,000; D, $690,000; E, $620,000.

Fire Station, Howard and Columbia avenue, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Safety, Bureau of Fire, 215 City Hall. Brick, limestone, steel, reinforced concrete, 2 stories and basement, 78x38 feet (plumbing, heating and electric separate), slag roof, pine, cement and composition floors, painting and glazing, rolled steel skylights, bond, ornamental iron work, steel lockers, area gratings, waterproofing. Low bidders: S. Sidney Lewis, Real Estate Trust Building, Philadelphia, $32,378; Pennsylvania Engr. & Const. Co., Real Estate Trust Building, $32,490. Heating, Taylor & Fetz, 6125 Vine street, Philadelphia, $2,928. Plumbing, F. Wackenhut, 2416 Frankford avenue, Philadelphia, $2,075. Electric, Merit Electric Co., 630 Race street, Philadelphia, $1,262.

Patrol Garage, 318 Florist street, Philadelphia. City architect, John Molitor, 1315 Wal-

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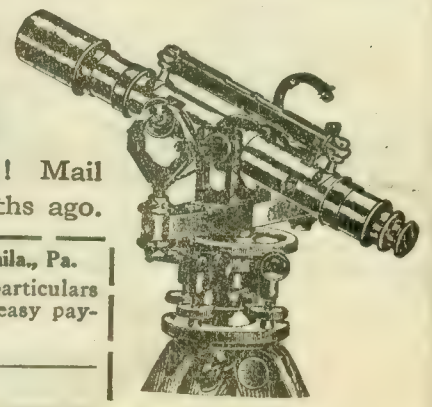
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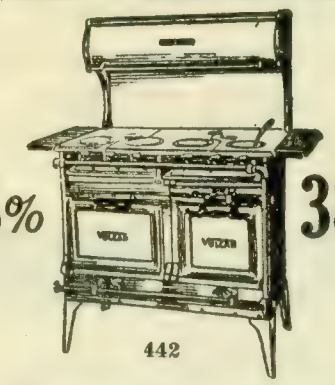
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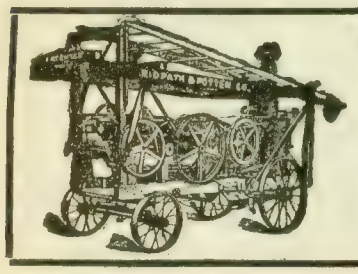
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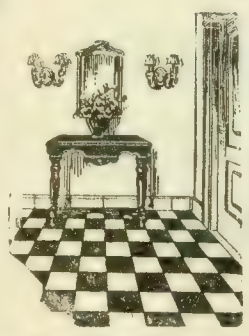
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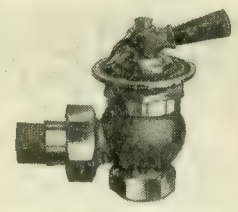
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PHILADELPHIA



nut street, Philadelphia. Owners, Department of Public Safety, Bureau of Police, 215 City Hall. Brick, reinforced concrete, steel, 1 story, 44x34 feet (plumbing, heating, electric separate), slag roof, pine and cement floors, painting and glazing, metal lath, bond, ornamental iron work, demolition, bluestone, steel doors. Low bidders: Bid A, Pennsylvania Engr. & Const. Co., Real Estate Trust Building, $11,729; Joseph W. McHugh, 1617 Race street, Philadelphia, $11,950. Bid B, S. Sidney Lewis, Real Estate Trust Building, $11,778; Pennsylvania Engr. & Const. Co., Real Estate Trust Building, $12,024. Plumbing, F. Wackenhut, 2416 Frankford avenue, Philadelphia, $1,069. Heating, William Ambrose, Leverington and Umbria streets, $396. Electric, Walen-Crosby Electric Co., 140 North Eleventh street, $156.

Sewer Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Low bidders: Bensalem avenue, Stahle to Lexington avenue, Philadelphia, J. Joseph McHugh, 1617 Race street, Philadelphia, $13,061.84. Almond street, Orthodox to Juniata, A. Matteo, Philadelphia, $20,808.89. Bingham street, Godfrey to Comly street, A. Di Sandro & Son, 3906 North Fifth street, $51,666.50. Edgemont street, Eddington to Alresford street, Joseph Moss, 1652 Wakeling street, Philadelphia, $1,242.42. Elmwood avenue, Fifty-sixth to Fifty-seventh street, Higgins & Reilly, Real Estate Trust Building, Philadelphia, $36,096.95. Forty-ninth street, Chester Branch, P. & R., to Schuylkill River, J. J. McHugh, 1617 Race street, Philadelphia, $44,070.98. Glenlock street, Robbins to Levick street, A. Pinchotti, Philadelphia, $5,257.40. Homer street, Cornelius to Rodney street, J. Joseph McHugh, 1617 Race street, Philadelphia, $10,304.50. Jackson street, Robbins to Levick street, A. Pischotti, Philadelphia, $5,340.52. Large, Roosevelt Boulevard to Devereaux street, A. Perna & Son, 752 South Tenth street, $14,478. Marsden street, Levick to Hellerman, A. Pischotti, Philadelphia, $6,209.40. N street, Hunting Park avenue to Bristol, Perna Engr. & Con. Co., 752 South Tenth street, $18,158.75. Phil-Ellena street, Cheltenham avenue to Pickering, A. Frunzi, 513 High street, Philadelphia, $13,278. Seventy-eighth street, N. Ogontz avenue, Limekiln pike, F. T. Buckius, Kensington and Deal street, Philadelphia, $16,968. Tyson, Walker to Frankford avenue, John Hastie, 601 East Hilton street, Philadelphia, $19,401.40. Aramingo avenue, Frankford Creek to Roxborough street, J. J. McHugh, 1617 Race street, Philadelphia, $27,872. Eighth street, Chelten avenue to Sixty-sixth street, Peter and A. J. Ellis, Fourth and Wyoming avenue, $46,522. Gillespie street, Robbins to Levick, O'Neill, 127 East Mermaid Lane, $141,599. Mansfield avenue, Haines to Washington Lane, O'Neill Co., 127 East Mermaid lane, Philadelphia, $159,661.13.

Buildings D, E and F (alts. and add.), Hatboro, Pa. Architect, private plans. Owners, Roberts & Manders Stone Company, Hatboro, Pa. Brick, cut stone, steel, 1 and 2 stories, 39x68 feet, 60x32 feet, 128x38 feet, (plumbing, heating, electric and sprinklers reserved), slag roof, cement and wood block floors, painting and glazing, hollow metal sash, ornamental iron work, demolition. Owner taking bids due as soon as possible.

Apartment Building (alts.), 1818 North Eighteenth street, Philadelphia, $2,000. Architect, John V. Speth, Brookline, Del. Co., Pa. Owner, Chas. Kleinknecht, on premises. General alterations. Permit granted.

Gate Houses (2), Navy Yard, Philadelphia. Architect, private plans. Owner, Bureau of Yards and Docks, Navy Department, Washington, D. C. Low bidders: S. Sidney Lewis, Real Estate Trust Building, Philadelphia.

Residence Operation, Seventeenth and Grange streets, Philadelphia. Architect, private plans. Owner, Brown and Caruso, 6548 Lansdowne Avenue, Philadelphia. Brick, 3 stories, 20x76 feet, and 2 stories, 16x34 feet, 13x24 feet, slag rooffi hardwood and pine floors, electric light, hot water heat, tile work. Permit granted.

Store (alts.), 1328 West Columbia Ave., Philadelphia, $5,300. Architect, Charles M. Wells, 3617 North Broad Street, Philadelphia. Owner, A. S. Kirpich, 3211 Oxford street, Philadelphia. General alterations. Permit granted.

Residence, Selma Street, west of Bustleton Pike, Piladelphia, $3200. Architect, private plans. Owner, Charles Kirbe, 3815 North Thirteenth street, Philadelphia. Frame, 2 stories, 28x36 feet, shingle roof, pine floors, electric light. Permit granted.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, Wayne Avenue and Hortter St., Philadelphia. Architect, Edgar A. Wightman, Bankers' Trust Building, Philadelphia. Owner, Martin M. Scott, care of Architect. Brickwork, linoleum floors, carpentry and millwork, plastering, painting and glazing, steam heat, electric light, tile and marble work, metal lath, metal bulks. Contract awarded Albert Zellfelder, 1324 Walnut St., Philadelphia.

Building (alts. and add.), 4115-17-19 Market street, Philadelphia, $8,000. Architect, Chas. J. Cummiskey, 86 W. Sharpnack St., Philadelphia. Owners, Barry Drum Co., on premises. Brick, tile coping, reinforced concrete, 2 stories and basement, 51x46 feet, slag roof, pine and cement floors, hardware, plumging, metal window guards, metal ceilings, ornamental iron stairs, Bond, steel sash, metal lath, hollow metal doors, (heating, electric fixtures, reserved), electric light, precast stone, painting, glazing. Contract awarded to N. W. Bryan Co., 10 South 18th Street, Philadelphia.

Store (alts.), 1420 West Girard Avenue, Philadelphia, $10,000. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Dr. M. E. Kolish, 1930 North Franklin street, Philadelphia. General alterations, new heating.. Contract awarded to A. S. Kirpich, 3211 W. Oxford Street, Philadelphia.

Office Building, Duncan, Sepviva, Arch and Aramingo streets, Philadelphia. Architect, private plans. Owners, Montgomery Iron & Steel Co., W. Nelson Mayhew, Samuel Frank, 918 Berks street, Philadelphia. Brick, steel, cast stone, 2 stories, 50x50 feet, slag roof, gas steam heat, electric light, slag roof, concrete and maple floors, plumbing, rolled steel and wood sash. Contract awarded William F. Lotz, 4644 Frankford avenue, Philadelphia.

Post Office Building, between Buildings No. 1 and No. 2, Sesqui Grounds, Philadelphia. Architect, James A. Wetmore, Supervising Architect, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Metal lath, stucco, steel, 1 story, 112x160 feet, slag roof, pine floors, electric light, metal lath, ornamental iron work. Contract awarded Austin Co., Jefferson Building, Philadelphia, $50,000.

Garage and Service Station, Farragut and Walnut streets, Philadelphia. Architects, H. Rex Stackhouse and W. W. Donohue, 1120 Locust street, Philadelphia. Owner, name withheld. Brick, 1½ stories, 25x100 feet, service station, brick, steel, 20x100 feet, 1 story, slag and tile roof, cement floors, Peele doors, steam heat, electric light, mechanical greasing and washing machinery (plumbing, heating separate bids). Contract awarded J. L. Fawley, 1615 Spruce street, Philadelphia.

Building, Wissahickon avenue and Yellin street, Philadelphia. Architect, private plans. Owner, Harold C. Irvin, 206 South Seventh street, Philadelphia. Brick, steel, 1 story, 37x182 feet, slag roof, cement floors, rolled steel sash, fire doors, ornamental iron wonk. Contnact awarded George Kessler Cont. Co., 1733 North Marvine street, Philadelphia.

Store Building (alts.), 110 South Nineteenth street, Philadelphia. Architect, private plans. Owner, William Merkle, Widener Building, Philadelphia. Steam heat, electric light, tile work, stucco work, plumbing, carpentry and mill work, plastering. Contract awarded F. G. Stewart, 1520 Locust street, Philadelphia, $8,500.

Restaurant Building, 29-31-33 North Ninth street, Philadelphia. Architect, private plans. Owners, Horn & Hardart Co., 214 South Tenth street, Philadelphia. General alterations. Plans in progress. Contract awarded Harry R. Rust, 41 North Hutchinson street, Philadelphia.

Dye House, Northwest Corner Philips and Cayuga streets, Philadelphia, $10,000. Architect, private plans. Owners, Elite Cleaning Co., 5814 Ludlow street, Philadelphia. Brick, slag roof, electric work, pine and cement floors. Contract awarded to I. Osinoff, 5814 Ludlow street, Philadelphia.

Factory, Southwest Corner Susquehanna avenue and Tulip street, Philadelphia, $8,500. Architect, private plans. Owner, Samuel Kassan, Hazzard and Tulip streets, Philadelphia. Brick, 2 stories, 40x60 feet, slag roof, electric light. Contract awarded to A. Earl Barnes, 2044 East Clementine street.

Residence and Store (add. and alts.), 932 Pine street, Philadelphia, $15,000. Architect, private plans. Owner, I. Reese, 930 Pine street, Philadelphia. Brick, 3 stories add., 19x25 feet, general alterations. Contract awarded to Feinstein & Pearson, 222 South Fifty-seventh street.

Store, 120 West Chelten avenue, Philadelphia, $10,000. Owner, E. A. Havens, 1018 Land Title Building, Philadelphia. Brick, 1 story, 60x49 feet, slag roof, electric work, pine floors. Contract awarded to Stewart Brothers, 2526 North Orkney street, Philadelphia.

Residence, 515 East Livezey lane, Philadel-

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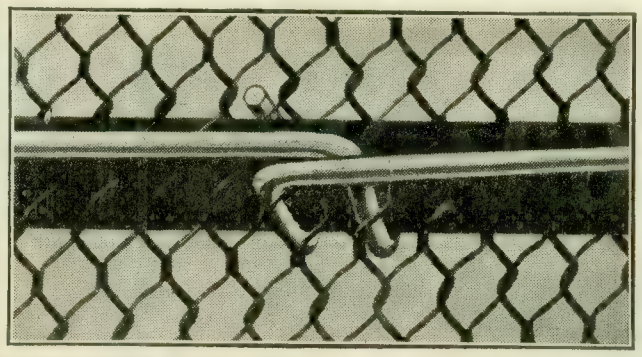
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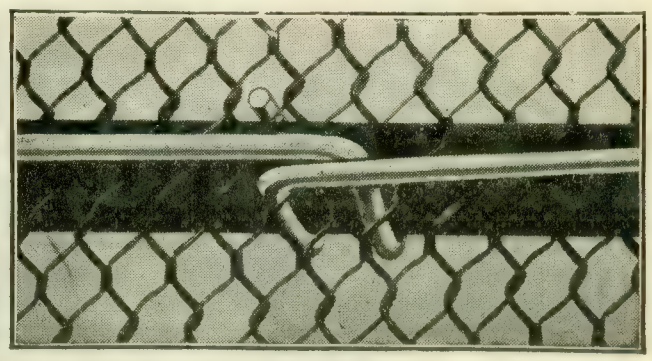
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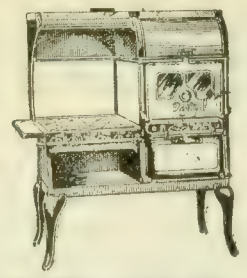




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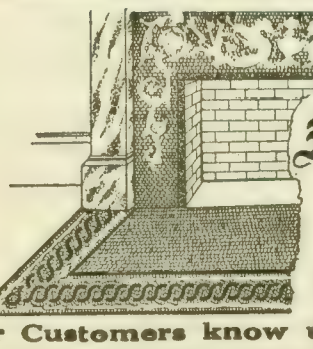
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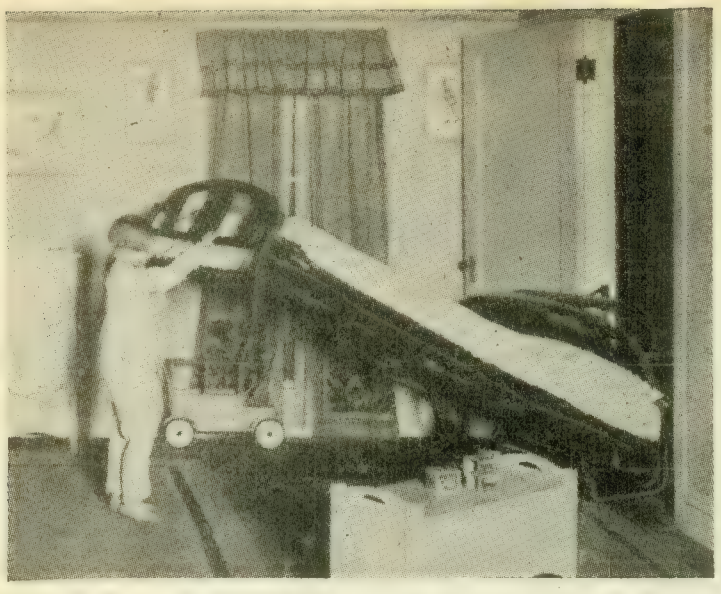
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phia, $6,800. Architect, private plans. Owner, Michael Driscoll, 6813 Ridge avenue, Philadelphia. Brick, 2 stories, 18x44 feet, hardwood and pine floors, electric light, hot water heat. Contract awarded to C. M. Swartley, 6835 Ridge avenue, Philadelphia.

Sesqui Exchange Bungalow, West side Broad street, South of Pattison avenue. Owners, Aerocrete Corp., care of builders. Aerocrete block, 1 story, 38x34 feet 6 inches. Contract awarded to Henry H. Behrens Co., Harrison Building, Philadelphia.

Store and Storage (add. and alts.), Southwest Corner Twentieth and Snyder avenue, $4,000. Architect, private plans. Owner, Joseph Guallo, 21 South Twentieth street, Philadelphia. Brick, 2 stories add., 18x20 feet, general alterations. Contract awarded to Michael Dyriano, 1920 Jackson street, Philadelphia.

Club (alts.), 239 South Camac street, Philadelphia, $3,900. Owners, Yachtsmen's Club, 239 South Camac street, Philadelphia. General alterations. Contract awarded to James A. Fitzgerald, 1623 Snyder avenue, Philadelphia.

Residences (6), Hoffnagle, D and Alicia streets, Philadelphia, $23,600. Owner, J. A. Bacher, 7862 Oxford pike, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Contract awarded to H. W. Myers, 638 Solly avenue, Philadelphia.

Office, West side Wayne avenue, North of Philadelphia & Reading Railway, Philadelphia, $10,500. Architect, private plans. Owners, J. T. Craig Co., on premises. Stone, 1 story, 40 feet 10 inches x 28 feet, electric light, pine floors. Contract awarded to R. M. Peterson & Son, 16 Queen Lane, Philadelphia.

Machine Shop (add.), 738-48 South Forty-second street (rear), Philadelphia, $8,500. Architect, private plans. Owner, A. Edmund Sausser, 1505 Locust street, Philadelphia. Brick, 1 story add., 42x60 feet, slag roof. Contract awarded to W. M. Manuel, 5849 Ellsworth street, Philadelphia.

Residence and Store (alts.), Northwest Corner Germantown avenue and Coulter street, Philadelphia, $2,600. Architect, private plans. Owner, Walter B. Staton, on premises. General alterations.- Contract awarded to R. M. Peterson & Sons, 16 Queen Lane.

Garage, Northeast Corner Phil-Ellena and Sherman streets, Philadelphia, $2,400. Architect, private plans. Owner, Willard M. Rice, on premises. Brick, 1 story, 21 feet 6 inches x 22 feet, slag roof, cement floors, electric work. Contract awarded to William G. Wright & Son, 22 Harvey street, Philadelphia.

Dye House, Northwest Corner Orthodox and Large streets, Philadelphia, $30,000. Architect, private plans. Owners, La France Textile Co., on premises. Brick, 1 story, 97x100 feet, slag roof, cement floors, electric work. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

Garage, 1719-21 Wallace street (rear), Philadelphia, $8,500. Architect, private plans. Owner, Isabelle Mustaro, 1719 Wallace street, Philadelphia. Brick, 1 story, 40x85 feet, slag roof, cement floors, electric work. Contract awarded to J. Jones Davies, 641 North Eighteenth street, Philadelphia.

Store and Show Room, 34 South Seventh street, Philadelphia, $6,000. Architect, private plans. Owner, R. M. Blitzstein, 4122 Girard avenue, Philadelphia. Brick, 2 stories, 19x58 feet, slag roof, pine floors, electric work. Contract awarded to M. Benjamin, 5913 Chancellor street, Philadelphia.

Residences (2), North side Princeton street, West of Torresdale avenue, $5,000 each. Architect, private plans. Owner, Herman Schaubacher, Torresdale and Princeton avenues. Brick, 2 stories, 16x46 feet, slag roof, pine floors, electric work. Contract awarded to Louis Dietrich & Co., 5921 Walker street, Philadelphia.

Shop (alts.), 226 North Fifteenth street, Philadelphia, $2,000. Architect, private plans. Owners, Twining Brothers, 226 North Fifteenth street, Philadelphia. General alterations. Contract awarded to George Klemk, Southampton, Pa.

Residence and Garage (add.), 3333 North Front street, Philadelphia, $2,000. Architect, private plans. Owner, Philip Sedusky, on premises. Brick, 1 story add., 18x36 feet, slag roof, pine floors, electric work. Contract awarded to B. O. Austaglio, 1837 Moore street, Philadelphia.

Manufacturing Building, East side N street, South of Butler street, $40,000. Architect, private plans. Owner, Max Sarfert, 4902 North Thirteenth street, Philadelphia. Brick, steel, 2 stories, 52x127 feet, slag roof, concrete floors, electric light. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Garage, 5732 Westminster avenue, Philadelphia, $7,500. Architect, private plans. Owner, J. Cicconi, 5728 Westminster avenue, Philadelphia. Brick, steel, 1 story, 50x84 feet, slag roof, cement floors. Contract awarded to A. J. Fivello, 54 North Fifty-third street, Philadelphia.

Residence (add.), 1318 Germantown avenue, Philadelphia, $3,500. Architect, private plans. Owner, Paul A. Bender, on premises. Brick, 1 story add., 15x40 feet. Contract awarded to D. K. Hiltebeitel, 1501 Hunting Park avenue.

Residence (add.), 6822 Mower street, Philadelphia, $3,400. Architect, private plans. Owner, Edward Willard, on premises. Brick, 2 stories add., 12x16 feet. Contract awarded to McClintock & Weaver, 23 West Phil-Ellena street.

Shop, 3077-79 Jasper street, Philadelphia, $7,000. Architect, private plans. Owners, Williams Brothers, Inc., 3078 Helen street, Philadelphia. Brick, 1 story, 88x36 feet, slag roof, pine floors, electric work. Contract awarded to Wintz Brothers, 1618 Sellers street, Philadelphia.

Apartment (add. and alts.) and Garage, Northeast Corner Darrah and Harrison streets, Philadelphia, $5,000. Owner, Arthur Rust, 1006 Harrison street, Philadelphia. Brick, 1 story add., 20x86 feet, general alterations, garage, 1 story, brick, 50x17 feet, slag roof, cement floors. Contract awardde to Rush Brothers, 2682 Darrah street, Philadelphia.

Residences (6), 6326-32 Hasbrook avenue and 314-16 Levick street, $4,000 each. Architect, private plans. Owner, Theodore Kiranse, 6500 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, pine floors, electric work. Contract awarded to Samuel Karp, 2516 West Cumberland street, Philadelphia.

Apartment House (alts.), 4003 Pine street, Philadelphia, $3,000. Architect, private plans. Owner, G. W. Witte, on premises. General alterations. Contract awarded to Thomas M. Cockerill, 2242 St. James street.

Residence and Store (add. and alts.), 4811-13-15 Walnut street, $3,000. Architect, private plans. Owner, Manuel M. Goset, 1216 Bankers' Trust Building, Philadelphia. Brick, 1 story add., 5x16 feet, general alterations. Contract awarded to B. Shestack, 6158 Locust street, Philadelphia.

Residence, 836 East Haines street, Philadelphia, $18,000. Architect, private plans. Owner, Lewis W. Folscheid, 4734 North Ella street, Philadelphia. Stone and brick, 2 stories, 45x30 feet, 15x10 feet, hardwood and pine floors, hot water heat, electric light, tile work, slate roof. Contract awarded to J. Henry Parker, 5583 Old York road, Philadelphia.

Residence, Northeast Corner Southampton and Herschel streets, Philadelphia, $12,800. Architect, private plans. Owner, William L. Houseman, Somerton, Pa. Frame, 2 stories, 36x51 feet 6 inches, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Alfred S. Sickel, Trevose, Pa.

Store and Office (alts.), Southwest Corner Eighteenth and Ludlow streets, $8,000. Architect, private plans. Owner, William Herbert Bode, 1840 Market street, Philadelphia. General alterations. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Laundry (add.), 5414 North Ella street, Philadelphia, $6,600. Architect, private plans. Owners, Suburban Laundry, 5414 Ella street, Philadelphia. Brick, 1 story, 40x52 feet, slag roof, electric lighting. Contract awarded to W. L. Bushnell, 1727 Vine street, Philadelphia.

Stable (add.), Southeast Corner Hutchinson and Thompson streets, $3,000. Architect, private plans. Owners, Mees Bakery, on premises. Brick, 1 story add., 16x60 feet, slag roof, cement work. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Store and Apartment (alts.), 2602 Girard avenue, $2,000. Architect, private plans. Owner, Owen Kelly, on premises. General altera-

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tions. Contract awarded to Frank I. Wintz, Inc., 1618 North Twenty-seventh street.

Residence (add. and alts.), 755 South Fourth street, Philadelphia, $16,000. Architect, private plans. Owner, L. Myerson, 751 South Fourth street, Philadelphia. Brick, 3 stories add., 18x53 feet, general alterations. Contract awarded to I. Negri, 1809 South Fourth street, Philadelphia.

Pennsylvania Construction News

Main Cell Building, Rockview, Center City, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia, Pa. Owner Board of Trustees Western State Penitentiary, N. S. Pittsburgh, Pa. Bond. Certified check 10% of the bid or bidder bond. Owner taking bids May 5th at noon. J. O. Stutsman Supt. of Construction.

Home and Bank Building, Harrisburg, Pa. Arcitect, C. Harry Kain, 31 North Second street, Harrisburg, Pa. Owners, Brotherhood's Relief and Compensation Fund, L. G. Smith, President, D. W. B. Murphy, Secty.-Treas., 2123 North Sixth street, Harrisburg, Pa. Brickwork, roofing, granolithic work, millwork, kalamein doors, skylights, ventilatos, incinerator, bronze work. Owners taking bids due May 25th at 2 P. M.

Residence, Elkins Park, Pa. Architect, private plans. Owner, I. M. Buch, 3318 N. Sixteenth street, Philadelphia. Frame, 2½ stories and basement, shingle roof, oak and pine floors. Contract awarded Penn Building Company, 2029 Stenton Avenue, Philadelphia.

Residence, No. 277 Villa Nova, Pa. (Ashwood Rd.) Architects, Wallace & Warner, Frankling Trust Bldg., Phila. Owner, Name withheld. Stone, hollow tile, stucco, 2½ stories and basement, 38x44 feet, shingle roof, oak and pine floors, painting and glazing, ornamental iron work, metal lath, hot water heat, electric light, tile work. Architects taking sub-bids due May 1st.

Residence Villa Nova, Pa. Architects Wallace and Warner, Frankling Trust Bldg., Phila. Owner, Mrs. H. Howard Ellison, Villa Nova, Pa. Frame and stucco, cut stone, 2½ stories and basement, 73x32 feet, shingle roof, oak and pine and cement floors, hot water heat, electric light, metal lath, tile work, ornamental iron. Architects taking sub-bids due May 1st.

Residence, No. 265 Rosemont, Pa. Architects Wallace & Warner, Franklin Trust Building, Philadelphia. Owner, James A. O'Brien, care of architects. Stone, hollow tile and stucco, 2½ floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Architects taking sub-bids due May 1st.

Residences (13), various locations. Architects Wallace & Warner, Franklin Trust Bldg., Phila. Owner, name withheld. Brick, hollow tile, stucco, stone, 2½ stories and basement, various sizes, hot water heat, electric light, metal lath, tile and marble work, slag and shingle roof, oak, pine and cement floors, painting and glazing. Residences, Nos. 266-268-270-272 Villa Nova, Pa. Residences, Nos. 267-274-275, Merion Pa. Residences, 276-283, Rosemont, Pa. Residences, 278-279-280-281, St. Davids, Pa. Architects taking sub-bids due May 1st.

Stadium, College Grounds, Chester, $100,000. Architect, not yet selected. Owner, Pennsylvania Military College, Chester. Reinforced concrete, single deck, 7,500 seating capacity. Will start grading site May 1st. To be completed September. Work contemplated.

Sunday School, Lewistown, Pa. Architect, George W. Savage, Witherspoon Building, Philadelphia. Owners, First Presbyterian Church, K. B. Bratton, Lewistown, Pa. Brick, 2 stories and basement. Plans in progress.

Comfort Station, Pottsville, Pa. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owners, City of Pottsville, S. Choen, City Hall, Pottsville, Pa. Concrete steel, 1 story, terrazzo floors, electric light, tile and marble work. Plans in progress.

School Building, City Line and Haverford road, Lower Merion Township, Pa. Owners, Board of Education, Lower Merion Township, Mr. Burns, secretary, Haverford, Pa. Work contemplated.

Church and Sunday School, Enola, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Zion Lutheran Church, Rev. M. S. Sharp, Enola, Pa. Brick, stone, 1 and 2 stories, 115x55 feet, 39x45 feet. Plans in progress.

Sanatorium, Eaglesville, Pa. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Eaglesville Sanatorium, Eaglesville, Pa. Architects ready for bids in a week.

Residence (add.), Bethayres, Pa. Architects, T. B. Lippincott and C. S. Schaef, 11 South Sixteenth street, Philadelphia. Owner, Walter MacFarland, Bethayres, Pa. Building block, stucco, 2½ stories, 32x60 feet, slate roof, pine, cement and linoleum floors, electric light extension, heating extension, tile and marble work, general alterations to the present building. Plans in progress. Ready for bids in one week.

Residence, Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, J. Rosenberger, Doylestown, Pa. Rough texture brick, 2½ stories, 41x26 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Ready for bids in three weeks.

Residence, Bristol, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Park Wetherill, Bristol, Pa. Concrete building block foundations, frame, 2½ stories, 36x33 feet, asbestos shingle roof, hot water heat, electric, tile work. Plans in progress. Ready for bids in one week.

High School, York road and Horsham road, Hatboro, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School Board of Hatboro, Pa. Brick, cut stone, steel, stone, 1 story and basement, 165x76 feet (heating, plumbing, ventilating, kitchen and cafeteria equipment separate), asbestos shingle roof, cement, pine, composition, tile and marble floors, hollow tile, metal lath, bond, iron stairs, ornamental iron work, granite, precast stone, concrete block, area gratings, steel casement sash, composition treads. Deposit, $10, refunded. Owners taking bids due April 30th, 7 P. M.

Church, Columbia, Pa. Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owners, Holy Trinity Roman Catholic Church, Rev. P. G. Brueggerman, Columbia. Stone, cut stone, limestone, steel, 1 story and basement, 195x75 feet (heating reserved), electric light, cement, tile, oak and pine floors, green slate roof, plumbing, metal lath, marble work, ornamental iron work, area gratings, bluestone, cast stone, casement sash. Architect taking revised bids due April 29th.

Store, Pottsville, Pa. Architect, Harold Holmes, Manager Architectural Department, Detroit, Mich. Owners, S. S. Kresge Co., Detroit, Mich. Fireproof, 3 stories, 170x42 feet, composition roof, oak and concrete floors, hollow tile, roof ventilators, iron stairs, fire doors, skylights, steel sash, tile and marble, metal lath, electric light. Owners taking bids due April 29th.

Residences and Garages (6), Stores and Residences (2), West Third street, Chester, Pa. Architect, W. E. Hance, Holly Oak, Del. Owner, J. Mercadante, 303 West Seventh street, Chester, Pa. Brick, 2 stories, 16x50 feet, slag roof, pine and hardwood floors, hot water heat, electric light. Plans will be completed in a few days. Owner will build.

Residence and Garage (alts.), Villa Nova, Pa. Architects, Delano & Aldrich, 126 East Thirty-eighth street, New York City. Owner, Mrs. Henry G. Leach, on premises. Stone, brick, stucco, limestone, 2½ stories and basement, slag, black slate tile roof, oak, pine and cement floors, hollow tile, metal lath, steelead skylights, kalamein doors, membrane waterproofing, dampproofing, demolition, flagstone, shoring, concrete masonry, brick, structural steel, miscellaneous iron area gratings, metal lath, plastering, linotile floors, marble and tile, carpentry and mill work, hardware, painting and glazing, granolithic floor finish (plumbing, heating and electric work reserved). Architect taking bids due April 30th.

Residence (interior alts.), Springfield, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, Dr. George Spear, Springfield, Pa. Electric light, metal lath, tile work, carpentry and mill work, plastering, painting and glazing, hardware. Architects taking bids due as soon as possible.

Factory (add.), Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Consumers' Box Board Co., Lancaster, Pa. Brick, fireproof, 2 stories,

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40x120 feet, composition roof, heating extension, electric light, rolled steel sash, fire doors. Plans in progress.

Residence, Twentieth and Market streets, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, O. K. Kines, care of architect. Brick, stone, 2 stories, 26x38 feet, tile roof, hardwood floors, tile work, electric light, cut stone. Architect taking bids due May 3rd.

Bank, Kingston, Pa. Architects, Simons, Britain & English, 929 Chestnut street, Philadelphia. Ownres, First National Bank of Kingston, Pa. (Mr. Chapin). Brick, reinforced concrete, cut stone, steel, 1 story and mezzanine and basement, 60x30 feet, Barrett Specification roof, cement, oak and pine floors, steam heat, electric light, metal lath, rolled steel sash, bond, floor hardener, ornamental iron work, area gratings, safety treads, plumbing, Truscon waterproofing. Owners taking bids due April 29th.

Residence, Green and Division streets, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, Max Langman, 1423 Verbeke street, Harrisburg, Pa. Stone, stucco, 2½ stories, 26x38 feet, hardwood floors, electric light, tile work. Architect taking bids due May 3rd.

Laboratory Building, near Enola, Cumberland County, Pa., $60,000. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Commonwealth of Pennsylvania, Department of Agriculture, Bureau of Animal Industry, Mr. Willitt, Harrisburg, Pa. Brick, steel, 1 story and basement, 100x31 feet, 50x106 feet, irregular, Barrett roof, cement floors, rubber tile floors, waterproofing, kalamein doors, skylights, tile and marble (heating, plumbing and electric separate). Owners taking bids due May 6th.

Sunday School, Frackville, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Peter's Reformed Church, Rev. A. E. Shellhase, Frackville, Pa. Brick, structural steel, 2 stories and basement, 65x70 feet, slate and composition roof, pine floors, hollow tile, waterproofing and dampproofing, bond, vapor heat, electric light. Owners taking bids due May 4th.

Church, Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Board of Home Missions of the Reformed Church, Glenside. Stone, cut stone, limestone, 1 story and basement, 40x60 feet, black slate and slag roof, cement, oak and pine floors, metal lath, ornamental iron work, cast stone, flagstone. Architects taking bids due April 30th at noon.

Residence, Narberth, Pa. Architect, Alexander M. Adams, 1012 Walnut street, Philadelphia. Owner, John Jacoby, 2025 Market street, Philadelphia. Stone, 2½ stories. Architect taking bids.

School, Jeffersonville, Montgomery County, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, West Norristown School District, Jeffersonville, Pa. Brick, cut stone, cement block, steel, 2 stories and basement, 144x115 feet (plumbing, heating, electric and ventilating reserved), gray block, slate and slag roof, cement and pine floors, hollow tile, metal lath, bond, ornamental iron work, iron stairs, area grills, waterproofing, limestone. Low bidders: Frank Schuler, Norristown, Pa., $78,465; William L. Hampton, Pottstown, Pa., $81,708. Heating and ventilating, Crisman & Quillman, Norristown, Pa., $16,610. Plumbing, Crisman & Quillman, Norristown, Pa., $4,429. Electric, Crisman & Quillman, Norristown, Pa., $3,336. Plans will be revised.

Nurses' Home, Lansdowne avenue, North of Garrett road, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Delaware County Hospital, Dr. T. Clawson Beswick, Stonehurst, Pa. Low bidders: D. Lutz & Co., Twenty-third and Chestnut streets, $115,850; Bowden Const. Co., 1607 Summer street, Philadelphia, $121,000.

Residence, Philadelphia pike, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, D. L. Landis, Philadelphia pike, Lancaster, Pa. Brick, concrete block, 2½ stories, 45x28 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

School (alts.), Hall, Gymnasium and Auditorium, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, St. Mary's Roman Catholic Church, Rev. G. J. Breckel, 309 South George street, York, Pa. Brick, steel, 2 stories and basement, 118x56 feet, flat roof, cement and hardwood floors, hollow tile, roof ventilators, metal ceilings, steel sash, tile and marble, electric light. Plans in progress.

Residence, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, J. McF. Thompson, care of architect. Brick, 2½ stories, 35x28 feet, slate roof, hardwood floors, electric light, tile work. Architect ready for bids.

Manufacturing Building, York, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, Manufacturers' Association of York, R. Gephart, 15 West Market street, York, Pa. Fireproof, 3 stories, 66x55 feet, tile roof, hardwodo floors, hollow tile, elevators, safety treads, steam heat, electric light, metal lath, tile, marble and terrazzo, iron stairs, ornamental iron. Architect will be ready for bids in two weeks.

Bank, Dallastown, Pa. Archieect, J. B. Hamme ,City Bank Building, York, Pa. Owners, Dallastown Union State Bank, Mr. Meyers, Dallastown, Pa. Brick, 1 and 2 stories, 20x60 feet, composition roof, terrazzo floors, metal window guards, vault, bronze work, tile and marble (steam heat reserved), electric light. Architect taking bids due May 5th.

High School, York, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, York School Board, David N. Crider, secretary, Central School Building, West King street and Cherry Alley, York, Pa. Completion of auditorium and gymnasium, general construction, electrical work. Certified check for 5 per cent. or bond 10 per cent. required. $50 deposit. $35 refund. Owners taking bids due May 13th at 1 P. M.

Residences (8 detached), Wynnewood, Pa., $20,000 each. Architect, private plans. Owner, Henry J. McLean, 521 South Fifty-second street, Philadelphia. Stone, 2½ stories and basement, 24x45 feet. Work contemplated. Will mature in the fall.

Sewer, Springfield Township, Pa. Architects, Damon & Foster, Upper Darby, Pa. Owners, Springfield Township, J. Calder, secretary, 152 Saxer avenue, Springfield. Furnish and lay 20-inch terra cotta pipe. Owners taking bids due May 4th, 8 P. M. Certified check, $500.

Sewer Work, Collingdale, Pa. Engineer, A. H. Yocum, 865 Main street, Darby, Pa. Owners, Borough Council, Joseph McDonigal, Collingdale, Pa. Furnish and lay 8-inch sewer pipe. Owners taking bids due May 10th, 8.30 P. M.

Paving and Curbing, Folcroft, Pa. Engineer, Alonzo H. Yocum, 865 Main street, Darby, Pa. Owners, Borough of Folcroft, S. Handle, Folcroft, Pa. Owners taking bids due May 4th, 8.30 P. M.

Paving, Main street, Eleventh to Thirteenth, Darby, Delaware County, Pa. Architect, A. F. Damon, Darby, Pa. Owners, Borough of Darby, E. R. Franklin, Darby, Pa. Resurfacing and repaving, 2-inch of bituminous concrete. Certified check $150. Owners taking bids due May 3rd.

Sewer, Sixth and Fearn streets, Darby, Pa. Architect, A. F. Damon, Darby, Pa. Owners, Borough of Darby, L. R. Franklin, Darby, Pa. Furnish and lay 6-inch terra cotta sewer pipe. Certified check, $100. Owners taking bids due May 3rd.

Delchester Bridge, over Ridley Creek, between Edgemont Township, Delaware County, and Willistown Township, Chester County, Pa. Engineer, E. C. Hollister, Media, Pa. Owners, Delaware County, George T. Wadas, Controller, and Chester County, John Pierson, Controller, Controller's Office, West Chester, Pa. Reinforced concrete, 55-foot span, earth fill, 27-foot roadway, 5 feet 10 inches sidewalk. $3 deposit (refund). $15 certified check.

Bridge, over Ridley Creek at Sycamore Mills, between Middletown and Upper Providence Townships. Engineer, S. C. Hollister, Media, Pa. Owners, Delaware County and Chester County, care of County Controller, West Chester, Pa. Reinforced concrete, 60-foot span. Plans completed. Owners will take bids in one month.

Bridge, over Furnace Creek, near Blooming Grove, between Penn and Manheim Townships, Pa. Owners, York County, William H. Menges, County Controller, Court House, York, Pa. Reinforced concrete girder bridge. Owners taking bids due April 26th at 10 A. M.

Bridges (2), West Branch Creek, Macoby Creek, Montgomery County, Pa. Architect, private plans. Owners, Montgomery County, Norristown, Pa. West Branch Creek, 2-span concrete, 50x15 feet wide. Macony Creek, concrete, 30x18 feet. Work contemplated.

Emergency Lighting System, Fort Washington School, Upper Dublin Township. Architect, Watson K. Phillips, 213 South Fifth street, Philadelphia. Owners, School District of Upper Dublin Township, Montgomery County, Pa. (W. Worman). Owners taking bids due not later than May 10th.

Supplies, Harrisburg, Pa. Owners, Department of Property and Supplies, B. H. Boyd, Harrisburg, Pa. Lavatory and engineer supplies, hardware, lumber and general supplies. Electric, plumbing and heating supplies. Owners taking bids due May 11th at noon. Certified check or bond.

Road Work, Pennsylvania. Owners, Pennsylvania State Highway Department, Harrisburg, Pa. Owners taking bids due May 6th at 10 A. M. Plans $2.50 per set.

Allegheny County, A-3754-55, Sewickley and Franklin Townships, 13,278 feet. One course reinforced concrete. Cereified check, $2,500.

Blair County, R-260-537, Catherine and Frankstown Townships, 21,515 feet. One course reinforced concrete. Certified check, $3,500.

Dauphin County, A-3865, West Hanover Township, 15,662 feet. One course reinforced concrete. Certified check, $3,000.

Jefferson County, R-435-36, Bell Township, 8,027 feet. One course reinforced concrete. Certified check, $2,000.

Mercer County, R-80, A-3934-4101, East Lackawanna and Findley Townships, Mercer Borough, 8,608 feet. One course reinforced concrete. Certified check, $2,000.

Mercer County, A-3935, South Pymatuning Township, 15,385 feet. One course reinforced concrete. Certified check, $2,500.

Susquehanna County, R-12, A-4001, Dimock Township, 13,200 feet. One course reinforced concrete. Certified check, $2,500.

Tioga County, R-166, A-3964, Wellsboro Borough, 3,370 feet. One course reinforced concrete. Certified check, $1,500.

Westmoreland County, A-3667-3984, Manor Borough, North Huntingdon Township, 11,369 feet. One course reinforced concrete. Certified check, $2,500.

Owners taking bids due May 7th at 10 A. M.:

Allegheny County, R-70, O'Hara Township, Aspinwall Borough, 4,190 feet. One course reinforced concrete. Certified check, $1,500.

Beaver County, R-155, A-3797-3624-3625, Hopewell and Raccoon Townships, 44,168 feet. One course reinforced concrete. Certified check, $4,000.

Beaver County, R-278, A-3831, Brighton Township, Borough Township, 22,809 feet. One course reinforced concrete. Certified check, $3,500.

Berks County, A-3842, Section 1, Muhlenberg, Alsace and Ruscomb Manor Townships, 34,097 feet. One course reinforced concrete. Certified check, $4,000.

Berks County, A-3842, Sec. 2, Ruscomb Manor and Rockland Townships, 21,868 feet. One course reinforced concrete. Certified check, $3,000.

Bucks County, A-3441-3670, Bristol Township and Bristol Borough, 8,242 feet. One course reinforced concrete. Certified check, $2,000.

Luzerne County, A-3770, Sugarloaf Township, 25,000 feet. Broken stone base course. Certified check, $3,500.

Mercer County, R-213, A-3936-4100, Sandy Creek and Perry Townships, Sheakleyville Borough, 20,011 feet. One course reinforced concrete. Certified check, $3,000.

Mifflin County, A-2764, Oliver Township, 7,500 feet. Broken stone base course. Certified check, $2,000.

Somerset County, R-50, A-3680, Addison Township, 15,580 feet. One course reinforced concrete. Certified check, $2,500.

Susquehanna County, R-174, Sec. 1, Clifford and Lenox Townships, 27,241 feet. One course reinforced concrete. Certified check, $3,500.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Low bidders:

Westmoreland County, R-161, A-3729, South and East Huntingdon Townships, 26,874 feet. One course reinforced concrete. The Georges Const. Co., Uniontown, Pa., $194,400.85.

Montgomery County, R-362, A-3916, Rockledge Borough, Abington Township, 8,000 feet. One course reinforced concrete. Ambler-Davis Co., Harrison Building, Philadelphia, $85,-674.05.

Clarion County, R-214, A-3957-4082, Monroe and Piney Townships, 25,899 feet. One course reinforced concrete. W. C. Quick & Co., Brookville, Pa., **$176,544.85.**

Berks County, R-382, 310, A-3825-2981, Heidelberg, Marion and Tulpehocken Townships, 37,282 feet. One course reinforced concrete. Ambler-Davis Co., Harrison Building, Philadelphia, $293,441.83.

Allegheny County, A-3581, Richland Township, 4,355 feet. One course reinforced concrete. A. G. Rothey, Elizabeth, Pa., $44,697.80.

Franklin County, R-522, A-3741-3745, Guilford Township, 22,631 feet. One course reinforced concrete. Britti & Lozzie, Hagerstown, Md., $154,879.37.

Tioga County, A-3995, Elkland Borough, 2,598 feet. One course reinforced concrete. Montour Const. Co., Montoursville, Pa., $21,-613.45.

Susquehanna County, R-296, A-4000, Clifford and Herrick Townships, Uniondale Borough, 15,266 feet. One course reinforced concrete. Freeland Const. Co., Hazleton, Pa., $116,-664.42.

Dauphin County, R-129, Steelton Borough, 7,234 feet. One course reinforced concrete. Swanger Fackler Const. Co., Lebanon, Pa., $88,086.58.

Mifflin County, R-33, Wayne Township, 11,466 feet. Grading and drainage. Shamrock Const. Co., St. Davids, Pa., $108,436.91.

Pennsylvania Contracts Awarded

Residence, Elkins Park, Pa. Architect, Silverman and Levy, Elrae Building, Philadelphia. Owner, Allen Kirschbaum, care of A. B. Kirschbaum Co., Broad and Carpenter streets. Stone, brick, 2 stories, 22x75 feet. Architect taking bids due May 8th.

Apartment House, Highland Park, Pa. Architect, Andrew J. Sauer Co., 1505 Race St., Philadelphia. Owner, Edward Roberts, Highland Park, Pa. Brick, steel, 4 stories and basement, 50x90 feet, slag roof, oak, pine and cement floors, hot water heat, electric light, metal lath, ornamental iron work. Architect taking preliminary bids due as soon as possible, from J. F. Roystone, 705 E. Girard Avenue, Philadelphia.

School Building, Ogontz School, Rydal, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Ogontz School, Rydal, Pa. Stone, 3 stories, 39x72 feet, 39x55 feet, slate roof, maple floors, hot water heat, electric light, metal lath. Contract awarded E. Allen Reeves, Abington, Pa.

School (add.), Petersburg, Pa. Architect, H. Y. Shaub, 20½ N. Queen Street, Lancaster, Pa. Owner, East Hempfield Township School Board, care of Architect. Brick, steel, 2 stories, 32x80 feet, slate roof, maple floors, roof ventilators, safety treads, unit heat, electric light, metal lath, ornamental iron work, Bond. Contract awarded to B. Frank Bachman, Woolworth Building, Lancaster, Pa. Plumbing nd Heating awarded to Bard-Will Co., 118 S. Queen street, Lancaster, Pa. Electric Work awarded to Paul Eshelman, 307 N. Queen Street, Lancaster, Pa.

Wynnewood Road School, Wynnewood, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, School District of Lower Merion Township, Wynnewood, Pa. Contract awarded George H. Evans, 105 North Thriteent street, Philadelphia, $318,846; Plumbing, Mellon Co., 4415 Ludlow street, Philadelphia, $18,185.

Hospital, Conway Tract, Lansdowne avenue, Upper Darby, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Delaware County Hospital, Dr. T. Clawson Beswick, Hospital Headquarters, Stonehurst, Pa. Brick, cut stone, concrete, steel, 4 stories, 110x48 feet, slag roof, composition and cement floors, hollow tile, safety treads, roof ventilators, metal weather strip, Karmak waterproofing, ornamental terra cotta, ornamental iron work, floor hardener, bond, tin clad, kalamein and hollow metal steel doors, copper skylights, rolled steel sash, tile and marble work, metal lath. Contract awarded David Lutz & Co., Twenty-third and Chestnut streets, Philadelphia.

School (add.), Southwest Corner Saxer avenue and Powell road, Springfield, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, School District of Springfield Township, C. G. Cope, Springfield, Pa. Stone, limestone, granite, brick, 2 stories add., 158x42 feet, 2 wings, 77x36 feet, slag roof, maple, cement and composition floors, metal lath, kalamein doors, iron stairs, ornamental iron work, shoring, dampproofing, iron stairs, cast stone, demolition (plumbing, heating, elcetric, ventilating separate). Contracts awarded: Bowden Const. Co., 1607 Summer street, Philadelphia. Heating, Burton L. Marker, Chester, Pa. Plumbing, Wilson Brothers, Collingdale, Pa. Electric, Merit Electric Co., 630 Race street, Philadelphia.

Oakdale School (alts. and add.), Baltimore pike and Chester road, Swarthmore, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, School Board of Springfield Township, C. G. Cope, Springfield, Pa. Brick, stucco, 2 stories and basement, 42x54 feet, wing 24x23 feet, wing 26x30 feet, slag roof, maple, composition floors, metal weather strip, shoring, metal lath, kalamein doors, bond, iron stairs, ornamental iron work, gypsum block partitions (plumbing, heating, electric and ventilating separate). Contracts awarded: Mooreshouse & Eves, Media, Pa. Heating, Burton L. Marker, Chester, Pa. Plumbing, Burton L. Marker, Chester, Pa. Electric, Merit Electric Co., 630 Race street, Philadelphia.

Goodhart Hall, Bryn Mawr, Pa., $400,000. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owners, Bryn Mawr College, Bryn Mawr, Pa. Stone, cut stone, 1 story and 2 stories and basement, auditorium, 110x60 feet, foyer, 110x60 feet, Vermont slate roof, maple and oak floors, steam heat, electric light, plumbing, concrete block, flagstone. Contract awarded R. C. Ballinger Co., 925 Walnut street, Philadelphia.

Residence and Garage, Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, W. L. Mason, Doylestown, Pa. Hollow tile, stucco, 2½ stories, 40x30 feet, 18x22 feet, slate roof, hardwood and cement floors, hot water heat, electric light, metal lath, tile work. Contract awarded A. K. Eckert, Doylestown, Pa.

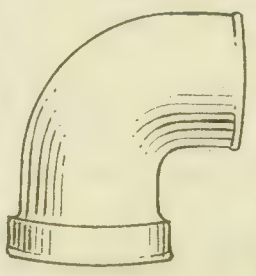
Church and Sunday School, Jacksonville, Pa. Architect, D. M. Rothenberg, 440A Court street, Reading, Pa. Owners, Jacobs Church, Henry Kistler, Wanamaker, Pa. Brick, stone, 1 story and basement, 115x60 feet. Contract awarded to Tamaqua Const. Co., Tamaqua, Pa.

Grade School, Camp Hill, Pa. Architects, Hasness & Albright, 213 Walnut street, Harrisburg, Pa. Owners, Camp Hill School Board, N. G. Fry, secretary, Camp Hill, Pa. Semi-fireproof, 1 story and basement, 141x53 feet, Barrett roof, maple floors, hollow tile, roof ventilators, skylights, steel sash, metal lath (heating, plumbing and electric separate). Contract arwed dto West Shore Lumber Co., Lemoyne, Pa.

Residence, Front and Broad streets, Harrisburg, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owner, James McLaughlin, Commonwealth Building, Harrisburg. Brick, 2½ stories, 35x46 feet, slate roof, hardwood floors, electric light, tile work. Contract awarded to J. A. McKelvy, 1314 Bartine street, Harrisburg.

Church and Sunday School (add. and alts.), Camp Hill, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Trinity Lutheran Church, Camp Hill, Pa. Brick,

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stone trim, 1 story and basement, 48x80 feet, composition roof, hardwood floors, heating extension, electric light. Contract awarded to A. W. Hertzler, Camp Hill, Pa.

School (add.), Fourth and Franklin streets, West Reading, Pa. Architects, Scholl & Richardson, 510 Walnut street, Reading, Pa. Owners, West Reading School Board, Elmer Wenrich, West Reading. Brick, terra cotta, steel, 3 stories, 40x70 feet, hollow tile, roof ventilators, metal lath (heating, electric and plumbing separate). Contract awarded to Fink Const. Co., 510 Walnut street, Reading, Pa.

Residence (alts. and add.), Newtown, Pa. Architect, Harry Parker, 1120 Locust street, Philadelphia. Owner, Charles J. Hoyt, Newtown, Pa. Contract awarded J. K. LaRue, Wrightstown, Pa.

Office Building, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, York Body Corp., care of architect. Steel, brick, mill construction, 2 stories and basement, 70x100 feet, composition roof, rubber tile floors, heating extension, electric light. Contract awarded to L. D. Menough, York, Pa.

Hotel Lehigh, Allentown, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Hotel Lehigh, Kaeppel & Kester, Sixth and Linden streets, Allentown, Pa. Brick, steel, limestone, 9 stories and basement, 98x145 feet, slag roof, oak, pine and cement floors, elevators, metal lath, tile work, rolled steel sash, bond. Contract awarded Consolidated Engr. Co., Franklin and St. Paul streets, Baltimore, Md.

Residence and Garage, Glenside, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Awner, J. Donaldson, Glenside, Pa. Stone, cut stone, 2½ stories and basement, 52x32 feet, slate roof, oak and pine floors, hot water heat, electric light, eile work, metal lath, ornamental iron work. Contract awarded Gentner Brothers, Willow Grove, Pa.

Residence, Glenside, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Henry D. M. Weir, Glenside, Pa. Stone, cut stone, 2½ stories and basement, 94x36 feet, slate roof, hot water heat, electric light, metal lath, tile work, ornamental iron work. Contract awarded Albert Zellfelder, 1324 Walnut street, Philadelphia.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Monroe County, R-169, A-3417, Stroud and Pocono Townships, 15,850 feet. One course reinforced concrete. $128,784.84. Contract awarded to Collins & Maxwell, Inc., Easton, Pa.

Clinton and Cameron Counties, R-105, S-4-6, Grove and East Keating Townships. Grading and drainage. $192,926.17. Contract awarded to W. C. Guncheon & Co., Harrisburg, Pa.

York County, R-230-441, A-3544, Penn and Manheim Townships, 25,668 feet. One course reinforced concrete. $188,092.73. Contract awarded to Continental Cont. Co., Baltimore, Md.

Lackawanna County, R-322, A-924, 4044, Archbald Borough, 3,014 feet. One course reinforced concrete. $113,181.25. Contract awarded to Public Service Production Co., Newark, N. J.

Monroe County, A-3759-60, Pocono and Jackson Townships. Broken stone base course. $95,994.47. Contract awarded to Lane Const. Co., Meriden, Conn.

Northumberland County, R-161, S-3, Ralpho and Shamokin Townships, 13,389 feet. One course reinforced concrete. $148,918.63. Contract awarded to William M. Mosser, Mt. Carmel, Pa.

New Jersey Construction News

Combine Curbs and Gutters with Appurtenance, Haddon Heights, N. J. Engineer, J. J. Albertson, Haddon Heights, N. J. A. S. Beck, Borough Clerk, Council Chamber, Haddon Heights, N. J. 78,000 line feet curbs, 1,100 cubic yards excavation; 2,733 square yards gutters. Certified check 5%, also bid bond. Owner taking bids due May 4th 8 P. M. (Above includes 3 No. 1 City Inlets).

Administration Building, Linden street, between Fifth and Sixth, Bridge Plaza, Camden, N. J., $100,000. Architect, private plans. Owners, Delaware River Bridge Joint Commission, Widener Building, Philadelphia. Stone, steel, brick, concrete. Details to size undecided. Will contain offices for commissioners, meeting rooms, fire house, etc. Work contemplated.

Elevators (repairs), City Hall, Camden, N. J. Owners, Department of Purchases, H. R. Pelouze, P. A., Room 6, City Hall, Camden. Repairs to elevator. Certified check $100. Owners taking bids due May 1st, 10 A. M.

Twin Residence, Princeton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, C. Fisher, 86 Nassau street, Princeton, N. J. Brick, 2½ stories, 35x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Hotel, Virginia avenue and Boardwalk, Atlantic City, N. J. Architect, W. Macy Stanton, 1524 Chestnut street, Philadelphia. Brick, stone, steel, concrete, 18 stories, 96x150 feet (225 rooms), built-up roof, hardwood, tile and marble floors, hollow tile and gypsum partitions, steam heat, electric work, oil burning, 3 elevators, tile and marble work, marble wainscoting, pilings, sprinkler system, kitchen equipment, refrigeration. Plans in progress.

School, Labor Tract, Hamilton Township, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton. Owners, Hamilton Township School Board, W. A. Robinson, District Clerk, Greenwood School, Trenton, N. J. Brick, steel, 2 stories and basement, 146x128 feet, slag roof, maple floors, steam heat, electric light, metal lath. Architect taking bids due May 5th.

Bungalow, Collingswood, N. J. Architect, L. E. Binns, 119 South Fourth street, Philadelphia. Owner, name withheld. Hot water heat, electric light, shingle roof, hardwood floors, imitation tile, 1½ stories, 25x40 feet. Plans in progress.

Church and School, Merchantville, N. J. Architect, Herman Zailer, Merchantville, N. J. Owners, St. Peter's Roman Catholic Church, Rev. J. B. Conway, Merchantville, N. J. Brick, 2 stories, slate roof, electric. Plans in progress. Will be ready for bids in one week.

Residence, Camden Hills, Camden County, N. J. Architect, L. E. Binns, 119 South Fourth street, Philadelphia. Owner, George E. Hawk, 1628 North Twelfth street, Philadelphia. Colonial type, 2½ stories, 24x26 feet, tile bath, hot air heat, hardwood floors, asbestos shingle roof, electric light. Owner will build.

Linden School (new building), Linden street, East of Tenth street, Camden, N. J. **Whittier School (add.),** Eighth and Chestnut streets, Camden, N. J. Architect, Edwards & Green, Camden, N. J. Owners, Board of Education, Meyer Wessel, Room 16, City Hall, Camden, N. J. Bid bond, $3.000. Owners taking bids due May 3rd, 2 P. M. (Daylight Saving Time). Also bid on school furniture and equipment for various schools for coming year. Certified check or cash, $25.

Cape May Court House, Cape May County, N. J. Architects, Edwards & Green, Camden, N. J. Owners, Board of Chosen Freeholders, T. M. Hand, Clerk, Cape May Court House, N. J. Brick, hollow tile, reinforced concrete, cut stone, steel, 2 stories and basement, 142x43 feet, wings 74x48 feet (plumbing, heating, electric separate), Johns Manville built-up roof, cement, composition and pine floors, painting and glazing, roof ventilators, metal weather strip, dampproofing, metal lath, trazite and marble work, rolled steel sash and skylights, hollow metal sash, vault doors, kalamein doors, bond, iron stairs, ornamental iron work, limestone, metal toilet partitions, acoustical treatments, cast stone. Low bidders: Bennett-McLaughlin, 3260 Ludlow street, Philadelphia, $152,640; General Const. & Cont. Co., Trenton, N. J., $153,500. Plumbing, W. H. Kentner, Wildwood, N. J., $10,170. Heating, Baldwin Ventilating Co., 1628 Ludlow street, Philadelphia, $19,197.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Hunterdon County, Perryville to Clinton, Route No. 9, Section No. 19. Excavation, double line reinforced concrete pavement and including the construction of (3) small span bridges. Owners taking bids due May 10th at 11 A. M. (Standard Time). Deposit of $10. Certified check 10 per cent.

New Jersey Contracts Awarded

Store, (alts.), 737 Federal street, Camden, N. J., $2800. Architect, private plans. Owner, W. A. Jackson, on premises. New store front, iron door, bulks, general alterations. Contract awarded to S. Levy, 1214 Kaighn Avenue, Camden, N. J.

Building (alts.), 720 North Front street, Camden, N. J., $2700. Architect, Abraham Stait, 4153 Leidy Avenue, Philadelphia. Owners, Abraham and Edward Stait, 4158 Leidy Avenue, Philadelphia. Interior alterations, iron fire escape. Contract awarded to S. Levy, 1214 Kaighn Avenue, Camden, N. J.

Schools (2), Westville Grove and Jericho, N. J., $46,850. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Depford Township School Board, Westville, N. J. Westville Grove: Brick, cut stone ,steel, 1 story and basement, 82x25 feet, wing 43x62 feet. Jericho: Brick, cinder concrete block, cut stone, 77x24 feet, built-up asbestos roof, maple floors, metal lath. Contract awarded to Barnes Const. Co., 1828 Arch street, Philadelphia. Heating to Harry Knecht, Collingswood, N. J., $5,900. Plumbing to C. A. Volker, Glassboro, N. J., $1,419. Heating to H. Dougherty, Almonesson, N. J., $895.

Building (add. and alts.), 1160 Baring street, Camden, N. J., $4,000. Architect, private plans. Owner, Harry Lichtman, Camden, N. J. Brick, 2 stories add., 14x15 feet, slag roof, hot water heat, general alterations. Contract awarded to A. Wacnik, 907 Atlantic avenue, Camden, N. J.

Store (add.), 1036 Central avenue, Camden, N. J., $3,600. Architect, private plans. Owner, John F. Bortie, 1036 Central avenue, Camden, N. J. Frame, 2 stories, 13x16 feet, and 1 story, 7x16 feet, slag roof. Contract awarded to Nick Riggerio, 342 Pine street, Camden, N. J.

Residence, 1267 Park Boulevard, Camden, N. J., $12,000. Architects, Moffet & Ergood, 104 Market street, Camden, N. J. Owner, M. L. Sakin, care of architect. Concrete block and stucco, 2½ stories, 28x45 feet, slate roof, pine and hardwood floors, hot water heat, electric light. Contract awarded to Richartz & Furner, 1838 Fillmore street, Camden, N. J.

Almshouse and Tuberculosis Hospital (alts. and add.), New Lisbon, N. J. Architect, Her-

bert O. Ziegler, Drexel Building, Philadelphia, Riverside, N. J. Owners, Burlington County Board of Chosen Freeholders, Burlington, N. J. Brick, steel, precast stone, 2 stories and basement, 79x40 feet, tin, asbestos shingle roof, pine and cement floors, painting and glazing. Contracts awarded: H. B. Miller, Edgewater Park, N. J.

Residences (4), 925-27-29-31 Beideman avenue, Camden, N. J., $16,000. Architect, private plans. Owner, Adolph Newmeyer, Camden, N. J. Brick, 2 stories, 14x49 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Robert Schaal & Son, 2719 Pierce avenue, Camden, N. J.

Residences (2), 3253-55 Rowe street, Camden, N. J., $8,000. Architect, private plans. Owner, Harry Frett, Camden, N. J. Frame, 2 stories, 14x46 feet, slag roof, pine floors, hot water heat. Contract awarded to Arllen, Renner & Skillen, 2721 Lincoln avenue, Camden, N. J.

Residence, 1216 Browning street, Camden, N. J., $7,000. Architect, A. B. Gill, 312 Market street, Camden, N. J. Owner, Charles P. Kaighn, Camden, N. J. Brick, 2 stories, 24x24 feet, slate roof, hot water heat, electric light, hardwood and pine floors. Contract awarded to A. D. Stewart, Haddon Heights, N. J.

Miscellaneous Construction News

Apartment Building (20 apartments), Ninth and West streets, Wilmington. Architect, W. E. Hance, Holly Oak, Del. Owner, Frank Rapkin, Wilmington, Del. Brick, 4 stories, 44x100 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble, fire escape, mill work, plumbing, oil burner. Plans completed. Architect will be ready for general bids in a few days.

Nurses' Home, Fourteenth and Washington streets, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Delaware Hospital, Fourteenth and Washington streets, Wilmington. Structural steel, brick, 4 stories and basement, 40x108 feet, built-up roof, concrete and composition floors, metal weather strip, waterproofing, architectural terra cotta, cut stone, hollow metal doors, metal partitions, tile and marble, metal lath (heating, plumbing and electric reesrved). Architect taking bids due April 30th.

Community House, Wilmington, Del. Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owners, Ursiline Nuns, Wilmington, Del. Architect taking bids due May 5th at noon.

Botany and Zoology Building, Wellsley, Mass. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Wellsley College, Wellsley, Mass. Brick, stone, steel, concrete, 4 stories. Architects taking bids.

Church (add.), Middletown, Md., $45,000. Architect, Edward Leber, Hay Building, York, Pa. Owners, Zion Lutheran Church, Rev. Day, Middletown, Md. Brick, 1 story and basement, 75x80 feet. Preliminary plans in progress.

Residence and Garage, Winston-Salem, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, George W. Coan, Jr., care of architect. Hollow tile, stucco, 2½ stories (electric, plumbing, heating and tile work reserved), slate roof, hardwood floors. Architect taking bids due May 11th.

Miscellaneous Contracts Awarded

Bank (alts. and add.), Sixth and Market streets, Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Security Trust & Deposit Co., J. Roselle, president, on premises. Brick, steel, stone, fireproof, 3 stories, 117x56 feet, fireproof roof, linoleum and marble floors, hollow tile, metal window guards (heating, plumbing and electric reserved), metal lath, tile and marble. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington. Heating and plumbing to T. T. Weldin, 916 Orange street, Wilmington, Del. Electric to George W. McCall, Wilmington, Del.

Residence and Garage, Yorklynne, Del., $30,000. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, J. T. Eckles, care of architects. Stone, brick, 2½ stories, 40x52 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to William Worrall, Kennett Square, Pa.

Residence, New Castle avenue, Wilmington, Del., $3,895. Architect, private plans. Owner, Joshua Pyle, Jr., Eden Park, Wilmington, Del. Concrete block, 2 stories, 24x32 feet, asphalt shingle roof, pine floors, pipeless heat. Contract awarded to W. H. Greenwald, 401 South Union street, Wilmington.

Residences (4), 2501-03 Monroe street and 601-03 West Twenty-fifth street, Wilmington, Del., $22,000. Architect, private plans. Owner, A. Julius, 412 Walnut street, Wilmington, Del. Brick, 2 stories, 20x32 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Dominick Cantera, 1911 West Ninth street, Wilmington.

Residence and Garage and Servants' House, Winston-Salem, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, Dr. Frederick M. Hanes, Winston-Salem, N. C. Brick, cut stone, hollow tile, stucco, 2 stories and basement, 2 stories, 44x40 feet, wing 35x20 feet, garage 48x21 feet (painting, plumbing, heating, electric, tile, marble and weather strip reserved), variegated slate roof, cement, oak and pine floors, hollow tile, metal ceilings, antihydro waterproofing, dampproofing, ornamental iron work, bond, hollow metal sash and skylights, metal lath, casement frames and sash, area gratings, ornamental plaster. Contract awarded McNeill Const. Co., Schaff Building, Philadelphia.

Warehouse, Richmond, Va. Architects, Francisco & Jacobus, 511 Fifth avenue, New York ity. Owners, P. Lorillard & Co., Richmond, Va. Reinforced concrete brick, 6 stories, 205x128 feet, built-up roof, cement floors, rolled steel sash, ornamental iron work. Contract awarded White Const. Co., Jefferson Building, Philadelphia.

Sunday School, Cumberland, Md. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Luke's Lutheran Church, Rev. H. Hall Shark, Cumberland, Md. Stone, steel, 1 story, 65x120 feet, tile roof, maple floors, hollow tile, roof ventilators, waterproofing and dampproofing, ornamental iron, metal lath, steam heat, electric light. Contract awarded to James C. Powell, 19 South Liberty street, Cumberland, Md.

FINANCING A HOME

A lack of understanding as to how to finance the building of a home rather than a lack of a desire to own a home is what keeps most people from building. In reality, the financing of a small home is not difficult. There are three methods of home financing: (1) membership in a Building and Loan Association, (2) borrowing on first and second mortgages and (3) paying on contract.

The operation of Building and Loan Associations is fairly familiar to most home builders as these associations will be found in almost every city and town. The general procedure is to become a member of the association by opening a savings account with them. The application is made for a mortgage loan when required. This loan is usually on a basis of 60 per cent to 70 per cent on the combined value of the land and building; repayable on a monthly basis, at the rate of 1 per cent. per month on the face amount of the mortgage. Thus, for a mortgage of $5,000 the monthly payment would be $50.00, part of which is applied to the principal; the balance being used as interest which is adjusted month-

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ly. Such loans as a rule, bear an interest rate of 6 per cent. On this basis it takes eleven years and seven months to pay off the above mortgage completely.

The real difficulty that is encountered in financing thousands of potential small home owners is the lack of established credit. Often these home builders require loans on terms of repayment that do not attract a lender. Again they may not have accumulated sufficient capital to put into the project that would constitute a substantial equity in the home desired.

Now besides the three methods of home financing already mentioned, another plan has been devised to encourage the modest home builder. It is rather a unique plan instituted by one of the largest insurance companies in the country. This scheme provides ten years, 6 per cent. mortgage loans on desirable home property throughout the United States. The loans are payable in one-hundred and twenty equal monthly installments. Life insurance to the amount of the loan is required as collateral security to protect the dependents against the burden of the debt and to protect the company as mortgagee. The monthly installment includes interest, life insurance premium, and the payment on account of principal.

Death is the chief hazard to which the purchasers of homes are subjected and which perhaps is the main cause of foreclosure. With this plan in operation, should death intervene during the payment period, the mortgage is paid immeditely by the life insurance company and anything in excess of the debt is paid over to the beneficiary. With everything going normally and the head of the house, the insured, living, the mortgage is paid off gradually and in about ten years the home may be free and clear of debt. It is much better to inherit a home paid up than a home saddled with a mortgage.

The benefits of such a scheme are numerous. An ordinary mortgage may fall due or be called in at short notice in times of financial stress. Money lenders often ask payment in full at maturity or demand heavy payments on account. Frequently the borrower may not be able to replace the mortgage, which may result in the loss of his property and savings or, if other funds can be obtained at such a critical time, the lenders will likely charge exorbitant commissions and high interest rates on the new loan.

Furthermore, in the ordinary purchase of a home, the necessary cost of examination of title, appraisal, survey and etc., make up a considerable item. Generally the borrower bears all of this expense, but in the plan of the insurance company, the company assumes the burden. By this plan, the scheme also permits pre-payment if the loan has been in force three years so that the borrower may clear up his debt in less than the ten years should he so desire.

While it is easy enough to place a first mortgage on one's home provided it is well constructed and in a good neighborhood, the placing of the second mortgage, which is so often necessary, is quite a difficult matter. The first mortgage often has to be supplimented by a second mortgage loan representing up to 25 per cent. or more of the cost of the land and house combined. Since the second mortgage bears the brunt of any misfortune which may happen to property, usually in addition to 6 per cent. or 7 per cent. interest, a bonus is required to induce the lending concern to take the risk.

If taxes or interest are not paid and it becomes necessary for the holder of the first mortgage to foreclose, the holder of the second mortgage must be in position to pay off the first mortgage and protect his own interest, otherwise under foreclosure procedure, the investment is in danger of being wiped out. Often when a home is built under first and second mortgages, the owner is dangerously close to "shoe string" financing.

First mortgage loans generally run for a period of three years. Second mortgages extend over a longer period, five years usually being acceptable to realtors. Savings banks, title companies and certain other financial institutions usually do not deal in second mortgages, consequently this second mortgage business is handled by those less responsible. While most subscribers of second mortgage money are dependable and honorable in their business dealings, there is still need to warn against organizations whose policy is in making a second mortgage loan to charge as great a bonus as it will bear, and to foreclose immediately upon termination of the loan unless the owner pays off the entire principal. Careful reading of the terms of all mortgage papers is wise.

No matter what the size of the loan is, it is always the best policy to arrange for partial payments at regular intervals. Thus on a loan of $5,000 at 6 per cent. interest, payments of $50.00 a month will take care of the interest on the loan and cancel the principal in less than 12 years, thus leaving the home free of debt. If regular payments do not have to be made, there is no stimulus to meet the obligation and often sufficient savings have not been accumulated to cover the total sum when it is needed and loans often drag along over the greater portion of a family'se life time.

When these three methods of financing the small home are made known to the potential home owner and he awakens to the practical possibilities of owning a home, the first and greatest step towards building and owning a home has been taken.

Representatives of manufacturers of hollow metal doors and trim, used in building operations, met recently in preliminary conference at the Department of Commerce to consider the possibility of simplifying sizes, types, and other matters connected with these products. W. Chattin Wetherill, Director of Metals Utilization, presided.

H. G. Garlock of Cleveland, O., secretary of the Hollow Metal Door and Trim Manufacturers' Association, was named as chairman of a simplification committee; the other members of the committee being George Hughes of the United Metal Products Company, Canton, O.; E. T. Johnson, of the Art Metal Construction Co., Jamestown, N. Y.; and Ernest C. Probst, of the Metal Door and Trim Co., La Porte, Ind.

This committee will place before manufacturers throughout the country a tentative program of simplification, and plans to complete tentative simplification recommendations, which can be submitted to a general conference of manufacturers, distributors and users, building engineers, architects and others.

The attendance at the conference included members of the committee and E. W. Sellstrom, of the Dahlstrom Metallic Door Co., Jamestown, N. Y., and Oscar Nyman of the United Metal Products Co., Canton, O., as well as representatives of the Bureau of Standards and Division of Simplified Practice.

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ARTESIAN WELLS.
dpath & Potter Co.,
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eber, F., Co. .....125 S. 12th St., Phila.
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assiah, Frederick.Juniper and Cypress Sts., Phila.

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evitt, Paul J. .....1101 S. 2nd St., Phila.
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eber, F. Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.

EXCAVATING.
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nitary Sewage Disposal Corp..40 S. 52nd St., Phila.

FENCES.
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1505 N. Mascher St., Phila.
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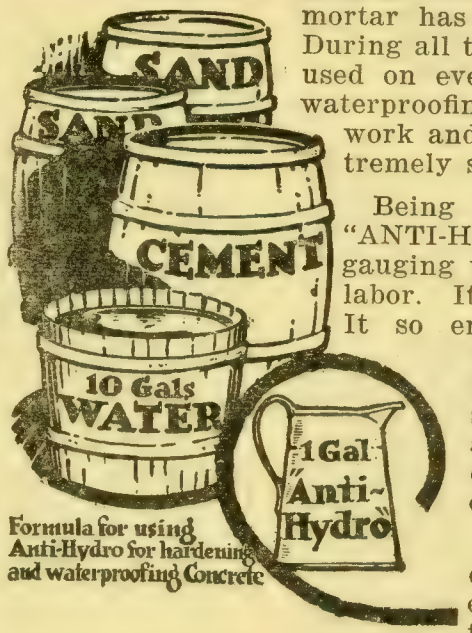
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May 5, 1926

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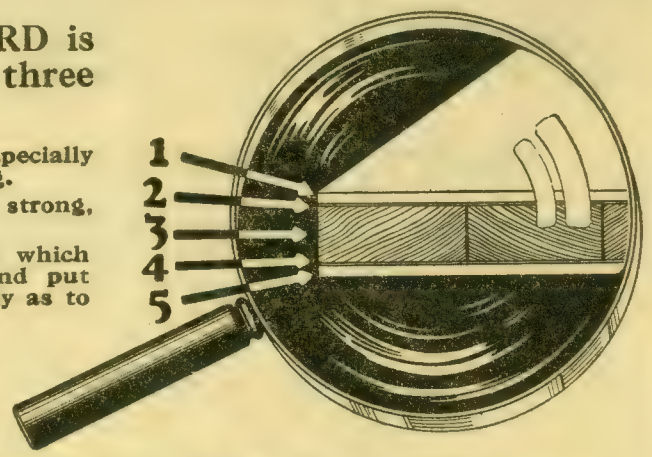
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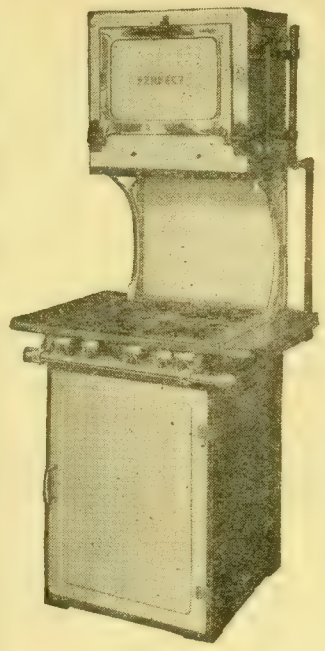
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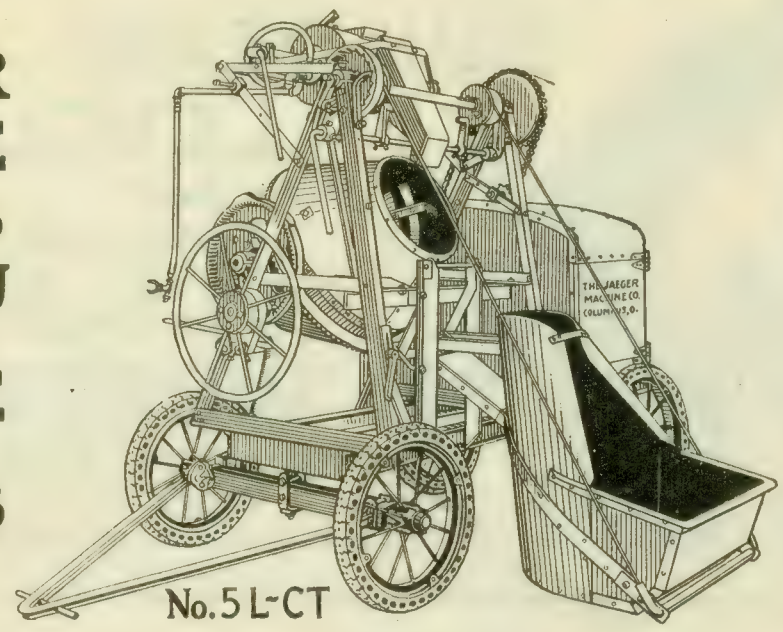
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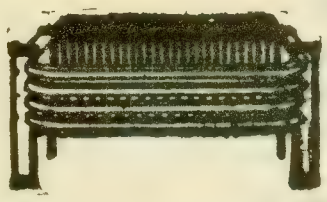
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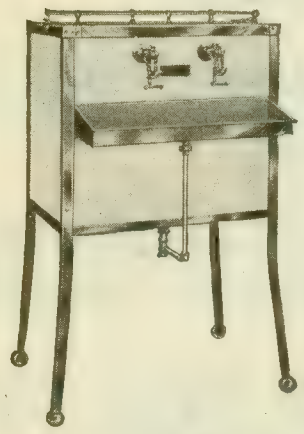
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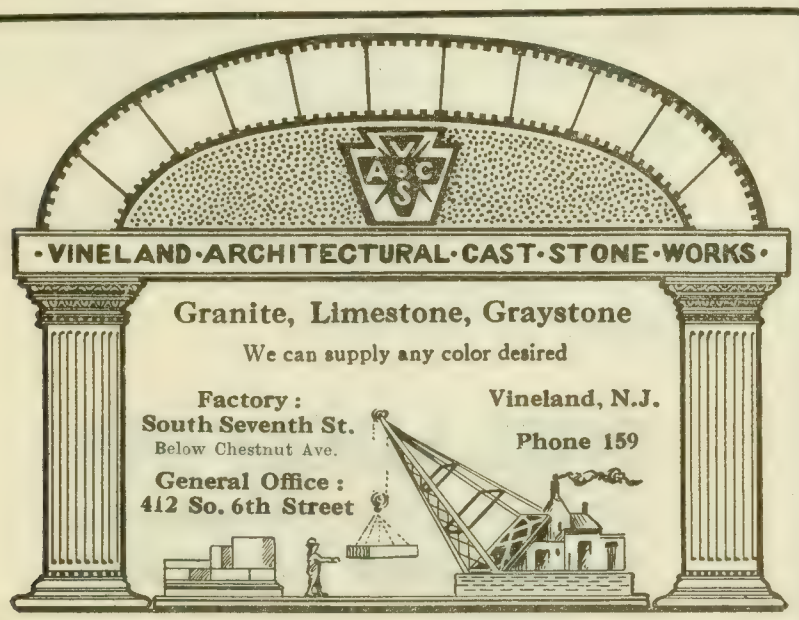
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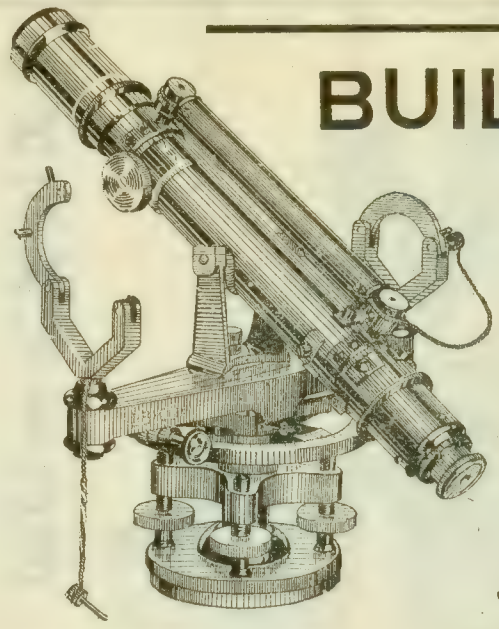
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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 18

PHILADELPHIA
May 5, 1926

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, North side Chestnut Street, Sixty-second and Sixty-third streets, Philadelphia. Architect, private plans. Owner, Isaac Dozor, 5649 Sansom street, Philadelphia. Brick, steel, 4 stories and basement, 150x100 feet, slag roof, oak pine and cement floors, steam heat, electric light, tile work, metal lath, ornamental iron work. Owner taking sub-bids.

Residence and Garage, Hill Road near Seventy-first street, Philadelphia. Architect, William J. Corcoran, 26 South Church street, Chester, Pa. Owner, George A. Smith, care of architect. Concrete block, hollow tile, stucco, 2½ stories and basement, 40x32 feet, wing 14x14 feet, tile built up roof, oak and pine floors, electric light, metal lath, rolled steel sash, bond, ornamental iron work, plumbing, flagstone. Architect taking bids due May 7th.

Church (alts. and add.), Broad street below Tioga street, Philadelphia. Architect, Heacock and Hokanson, 1211 Chestnut street, Philadelphia. Owner, Tioga Baptist Church, Rev. H. S. Stewart, on premises. Concrete work, carpentry and millwork, plastering, painting and glazing (plumbing, heating, electric work reserved), tile work. Architect taking bids due May 12th.

Laundry Building, 3506-08 Haverford Avenue, Philadelphia. Architect, Julian Simsohn, Broad and Girard Avenue, Philadelphia. Owner, Straford Dampwash Laundry, Mr. Frazier, 3729 Market street. Brick, steel, 1 story, 60x50 feet, slag roof, cement floors. Architect selected. Plans in progress.

South Philadelphia Track Elevation, Philadelphia. Owner, Department of Public Work, Bureau of Engineers, 216 City Hall. Grading, paving, sewer and appurtenance work, Twenty-fifth and Washington Avenue and adjacent streets Owner taking bids due May 12th 11 A M. (S. T.)

Supplies, 312 City Hall, Philadelphia. E. J. Lafferty, 312 City Hall, taking bids due May 13th 11 A. M. (S. T.) on furniture furnishings, white oak and hickory lumber. Certified check 5%.

The Wellington (add.), Nineteenth and Walnut streets, Philadelphia. Architect, Ralph B. Benckert, Bellvue Court Building, Philadelphia. Owners, The Wellington, Nineteenth and Walnut streets, Philadelphia. Sketches being drawn.

Store Building, 929 Market street, Philadelphia. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Harry C. Kahn & Son, L. H. Kahn, treasurer, Eleventh and Filbert streets, Philadelphia. Brick, cut stone, granite, 11 stories and basement (plumbing, heating and electric, elevators and sprinklers reserved), composition roof, cement floors, hollow tile, waterproofing, architectural terra cotta, ornamental iron work, floor hardener, hollow metal doors, rolled steel skylights, hollow metal sash, tile, terrazzo and marble work, metal lath, bronze work, ornamental plaster. Revised plans in progress.

Hospital (alts. and add.), Rector and Ridge avenue, Roxborough, Pa., $250,000. Owners, Memorial Hospital, Charles E. Dearnley, chairman of Building Committee, Baynton and Chelten avenue, Philadelphia. Work contemplated. Raising funds.

Residence and Garage, City Line and Belmont avenue, Overbrook. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Melville Curtis, care of Collins & Aikman Co., Fifty-first and Columbia avenue. Stone. Too early for details. Plans in prgoress.

Hospital (alts. and add.), Rector and Ridge avenue, Roxborough, Pa. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Memorial Hospital, on premises, care of C. E. Dearnley, Baynton and Chelten avenue, Philadelphia. Sketches drawn.

Apartment House, Pine street, between Forty-fourth and Forty-fifth streets, Philadelphia. Designer and owner, Samuel Elgart, 4713 Chester avenue, Philadelphia. Brick, stone, steel, 4 or 8 stories, 100x160 feee. Details undecided. Plans in progress.

Residence No. 2, North of Coulter, West of Fox street, Philadelphia. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owner, George H. English, Henry road, North of Coulter street, Philadelphia. Stone, 2½ stories, 25x50 feet, hot water heat, electric, metal lath, tile, slate roof, hardwood floors, cement, steel basement sash. Owners will build and is ready for sub-bids.

House of the Good Shepherd, Penn and Chew streets, Germantown. Architect, Frank

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V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, St. Magdalen Asylum, on premises. Stone, limestone trim, 3 stories and basement, 40x100 feet, slag roof, maple floors, electric light, terrazzo work, 2 passenger elevators, 2 dumb waiters, metal partitions, slate blackboards, slate treads, wrought iron stairs (plumbing, heating, electric light, power equipment, laundry equipment, grading, sodding, electric fixtures, kitchen equipment, shrubbery reserved). Plans completed. Architect will be ready for bids in a few days.

School (alts.), Cottman street and Torresdale avenue, Tacony, Philadelphia. Architect, F. V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, St. Hubert's Roman Catholic Church, Rev. J. Ludwig, on premises. Completion of second floor, vapor heat, electric light, maple floors, blackboards, kitchen equipment. Plans completed. Architect will be ready for bids in a few days.

Factory Building, Swanson and Porter streets, Philadelphia. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Charles E. Johnson Co., Tenth and Lombard streets, Philadelphia. Hollow tile, stucco, 1 story and 3 stories, 62x92 feet, steam heat, electric light, metal sash, slag roof, cement floors, plumbing. Plans completed. Owners will take bids in about one month.

Store and Residences (4), Northwest Corner Bainbridge and Leithgow streets, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, J. Goldstein, care of architect. Brick, 3 stories, 17 feet 6 inches x 51 feet each, slag and tin roof, pine floors, hot water heat, electric light, tile work, metal bulks, metal ceilings, plate glass. Plans completed. Architect ready for general bids in a few days.

Boiler House and Dye House, Powder Mill road, West of Adams street, $18,500. Architects, H. D. Best Co., 949 Broadway, New York. Owners, Tremont Realty Co., on premises. Brick, boiler house, 51 feet 6 inches x 44 feet 9 inches, dye house, 66x30 feet 3 inches, slag roof, cement work, electric work. Architects will build.

City Hall Annex, Southeast Corner Juniper and Filbert streets, Philadelphia. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall. Brick, limestone, steel, 15 stories and basement, 246x100 feet (plumbign, heating and electric separate), slag roof, cement floors, elevators, metal lath, tile, marble and terrazzo work, rolled stee lsash, fire, kalamein and hollow metal doors, bond, iron stairs, ornamental iron work, shoring, elevators, waterproofing and dampproofing, architectural terra cotta. Owners taking bids due May 19th, 11 A. M. (Standard Time).

Kensington Recreation Center (add.), Berks and Blair streets, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Department of Public Works, Bureau of Recreation, 595 City Hall. Brick, steel, 2 stories add., 61x34 feet (plumbing, heating, electric separate), tin roof, pine floors, painting and glazing, hollow metal sash and doors, bond, ornamental iron work, architectural terra cotta. Owners taking bids due May 7th, 11 A. M. (Standard Time).

Louis Mark Building, Sesqui Grounds, Philadelphia. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owners, Louis Mark Shoes, 1227 Market street, Philadelphia. Metal lath and stucco, 1 story, 86x88 feet (plumbing and electric reserved), metal Spanish tile built-up roof, pine floors, painting and glazing, bond. Architect taking bids due as soon as possible.

Residence, South side of Grant avenue, West of Frankford avenue, $12,000. Architect, Samuel D. Milnor, 1117 Foulkrod street, Philadelphia. Owner, Robert Johnson, 1130 Allengrove street, Philadelphia. Brick, 3 stories, 27x41 feet, 16x18 feet, hardwood and pine floors, electric light, tile work. Architect will build.

Farm House Exhibit Building, Sesqui Grounds, Philadelphia. Architects, Division of Agricultural Engineering, Bureau of Public Roads, S. H. McCrory, Washington, D. C. Owners, Bureau of Home Economics, United States Department of Agriculture, Washington, D. C. Frame, 39x30 feet, wing 24x15 feet, asphalt shingle roof, pine floors, electric light, painting and glazing. Owners taking bids due as soon as possible.

Auction Sales Building, Delaware avenue, near Jackson street, Philadelphia. Architects, Office of Engineers, H. A. Lane, Baltimore, Md. Owners, Baltimore & Ohio Railroad, Baltimore, Md. Brick, reinforced concrete, steel, 2 stories, 1025x114 feet, composition roof, cement and linoleum floors, hollow tile, safety treads, metal lath, rolled steel sash, hollow metal doors, ornamental iron work, metal toilet partitions, dumb waiters, acoustical treatment. Owners taking bids due May 10th.

Army Camp, Sesqui Grounds, Philadelphia. Architect, private plans. Owners, United States Army Corps, Washington, D. C. Frame, felt roof, pine floors, metal window guards, administration building and officers' mess, 1 story, 110x22 feet, cavalry stable, 1 story, 232x22 feet, general shed and stable, 1 story, 255x30 feet, 9 mess kitchens, 1 story, 20x105 feet, 4 lavatories, enlisted men, 1 story, 20x49 feet, 2 lavatories for officers, 1 story, 14x20

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feet, 1 guard house, 1 story, 20x42 feet, 1 infirmary building, 1 story, 20x42 feet, 2,000 feet fencing, 500 feet picket line. Owners taking bids due May 6th.

Municipal Hospital (alts.), Second and Luzerne streets, Philadelphia. Architcet, Philip H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Health, W. Krewson, M. D., City Hall. Furnish and install underground duct system from main feeders of ward building and a line from power house to laundry, etc., including manhole and feeder cables. Furnish and erect wood insect screens, painting exterior of building. Removing condensation return lines and replacing same with wrought iron pipe, etc. Furnish all materials and making necessary repairs to roof of buildings. Resurfacing roof of connecting corridors and plastering soffit of concrete roof slab of same, etc. Furnish and erect marquise over entrance door to gate house. Furnish and erect new laundry machinery and repairs to present machinery. Owners taking bids due May 12th, 11 A. M. (Standard Time).

Building and Residence (alts. and add.), Northeast Corner Second and Lehigh avenue, Philadelphia. Architects, Lehigh Engineering Co., Sixth and Lehigh avenue, Philadelphia. Owner, Joseph Steiner, on premises. Plastering, painting and glazing, carpentry and mill work, plumbing, heating and lighting alterations, metal lath, ornamental iron work. Owner taking bids due as soon as possible.

Exhibit Building, Sesqui-Centennial Grounds, Philadelphia. Architect, W. A. Kleman, Trenton, N. J. Owners, Fulper Pottery Co., Trenton, N. J. Frame and stucco, 1 story, 17 feet 10 inches x 33 feet 4 inches, slag roof, cement floors, concrete and cement work, flag poles, painting, iro nwork, mill work. Architect taking bids due as soon as possible.

Miscellaneous Work. Owners, Department of Public Works, Bureau of Highways, 232 City Hall. Owners taking bids due May 6th, 11 A. M. (Standard Time). Grading, asphalt paving, vitrified rock paving, asphalt repaving, redresse dgranite block repaving. Certified check 5 per cent. of bid.

Equipment, Contract No. 143, Mt. Vernon, Cumberland, Lowden Stations, Broad Street Subway, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Owners taking bids due May 18th, 11 A. H. (Standard Time). Certified check, 5 per cent.

Miscellaneous Work, Fairmount Park, Philadelphia. Owners, Commissioners of Fairmount Park, A. Corson, 127 City Hall. Owners taking bids due May 7th at noon for forage, sod, top soil, erecting and installation of pumping equipment at Aquarium.

Supplies, Philadelphia. Purchasing agent, E. J. Lafferty, 312 City Hall, Philadelphia. Owners taking bids due May 10th, 11 A. M. (Standard Time) for crushed stone. Certified check, 5 per cent. of bid.

Boring, Green Lane Bridge, over Schuylkill River, Philadelphia. Owners, Department of Public Works, G. H. Biles, Philadelphia, and County Commissioners of Montgomery County, W. C. Irwin, Norristown, Pa. Churn borings. Certified check 5 per cent. of bid. Owners taking bids due May 18th before 10 A. M. (Standard Time).

Coast Guard House, Broad and Pattison avenue, Philadelphia. Architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, United States Government, Sesqui-Centennial, 531 Chestnut street, Philadelphia. Low bidders: Haverstick & Borthwick, Schaff Building, Philadelphia, $34,500.

Columns of the Signers, Sesqui Grounds, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Sesqui-Centennial Association, 513 Chestnut street, Philadelphia. Low bidders: Conneen Const. Co., 2315 Walnut street, Philadelphia.

Residences (63), Granite, Summerdale, Langdon and Trotter streets, $251,000. Architect, private plans. Owner, Anthony Olivieri, 6726 Torresdale avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Garage, Northwest Corner Bustleton avenue and Placid street, Philadelphia, $10,000. Architect, private plans. Owner, Charles D. Silcox, Jr., 2759 Orthodox street, Philadelphia. Stone, 1 story, 32x60 feet, cement floors, electric light. Permit granted.

Residences (2), Southwest Corner Rhawn and Horrocks streets, Philadelphia, $10,000. Architect, private plans. Owner, U. S. Hunsberger, 1392 Luzerne street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, pine floors, electric light. Permit granted.

Residence (add. and alts.), 1230 South Seventeenth street, Philadelphia, $5,000. Architect, private plans. Owner, I. Goldman, 4277 Viola street, Philadelphia. Brick, 3 stories, 17x35 feet, general alterations. Permit granted.

Residences (32), West side Fifty-ninth street, Greenway to Kingsessing avenue. Architect, private plans. Owner, Joseph K. Seidel, 5213 Chestnut street, Philadelphia. Brick, 2 stories, slag roof, hardwood and pine floors, electric work. Permit granted.

Service Station, East side Twenty-fourth street, North of Washington Lane, $120,000. Architect, private plans. Owner, Edward M. Harris, 2220 Chestnut street, Philadelphia. Brick, 1 story, 179x264 feet, slag roof, cement floors, electric light. Permit granted.

Residences (28), A, Clearfield and Ella streets, Philadelphia, $141,000. Architect, private plans. Owners, Lear & Abramson, 720 Wolf street, Philadelphia. Brick, 2 stories, (2) 14x38 feet, (26) 14x26 feet, 11x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Garage, 3613-15-17-19 North Fifth street, Philadelphia, $10,000. Architect, private plans. Owner, I. W. Massey, 5311 Thomas avenue, Philadelphia. Brick, 1 story, 80x104 feet, slag roof, cement floors, electric light. Permit granted.

Apartment House (alts.), 4520-22 Walnut street, Philadelphia, $5,000. Architect, private plans. Owners, Industrial Finance Co., Fox Building, Philadelphia. General alterations. Permit granted.

Residences (6), West side Shawnee street, South of Highland avenue, $5,000. Architect,

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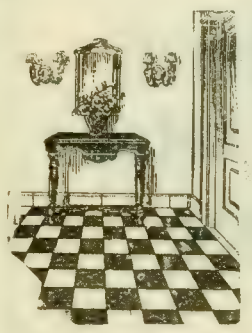
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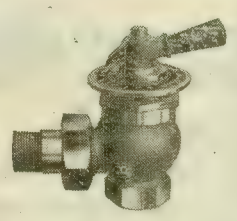
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Residences (4), 7120-22-24-26 Glenlock street, Philadelphia, $5,000. Architect, private plans. Owner, Robert Gercke, 7123 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Store and Show Room, West side Kensington avenue, North of N street, $4,500. Architect, private plans. Owner, D. J. Rafferty, 3157 Kensington avenue, Philadelphia. Brick, 1 story, show room, irregular size, store 16x53 feet, slag roof, pine floors. Permit granted.

Apartment House, Southwest Corner Thirteenth and Lindley avenue, Philadelphia, $375,000. Owners, S. Yellin & Son, 322 North Eleventh street, Philadelphia. Brick, 4 stories, 12x36 feet and 85 feet x irregular, slag roof, hardwood, pine and cement floors, vapor heat, electric light, tile work. Permit granted.

Residence, East side Green Tree road, South of Bells Mill road, $30,000. Architect, private plans. Owner, Judson M. Zane, Land Title Building, Philadelphia. Stone, 3 stories, 29x46 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Permit granted.

Residence and Store (alts.), 5622-24 Germantown avenue, $10,000. Owners, Albert Zellfelder, 1324 Walnut street, Philadelphia. General alterations. Permit granted.

Service Station, Southwest Corner Jasper and Frankford avenue, $7,500. Architect, private plans. Owners, Gulf Refining Co., 1515 Locust street, Philadelphia. Brick, 1 story, 13x13 feet, slag roof, cement floors, electric light. Permit granted.

Residences (2), 7113-15 Glenlock street, Philadelphia, $5,000 each. Architect, private plans. Owner, O. H. Thompson, 3123 Tyson street, Philadelphia. Brick, 2 stories, 16x17 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (2), 7218-20 Tabor road, Philadelphia, $5,000 each. Architect, private plans. Owner, E. Fred Kemmer, 7319 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Gas Station, Northeast Corner Front and Erie avenue, Philadelphia, $3,000. Architect, private plans. Owners, Sun Oil Co., 1428 South Penn Square, Philadelphia. Iron, 1 story, 8x16 feet. Permit granted.

Miscellaneous Paving, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Benner street, Castor avenue to Roosevelt Boulevard, Morrisey Brothers, 4345 North Seventh street, Philadelphia, $1,590.35. Anderson street and others, McCarrick Brothers, 3240 Fox street, Philadelphia, $3,450.30. Aubrey street and others, Curtis Brothers, State road, Philadelphia, $22,-199.40. Edna street and others, Morrisey Brothers, 4345 North Seventh street, Philadelphia, $36,741.95. KK street, Sedgley avenue to Hunting Park avenue, Elwood Garlick, 2948 East Venango street, Philadelphia, $22,-126.40. Kennedy street and Tulip street, J. Joseph McHugh, 1617 Race street, Philadelphia, $1,478.96. Tulpehocken street, Woolston to Thouron, Frank Mark Cont. Co., 2820 North Twenty-first street, Philadelphia, $4,307. Glen Echo road, McCallum to Emlen street, McCarrick Brothers, 3240 Fox street, Philadelphia, $20,613.20. Apple street, Jamestown to Wendover, Barber Asphalt Co., 1600 Arch street, Philadelphia, $2,290.83. Chelwynde avenue and others, Barber Asphalt Co., 1600 Arch street, Philadelphia, $18,161.63. Merrick street, Shurs lane to 225 feet northwest, Eastern Asphalt Co., Pennsylvania Building, $2,992.60. Pacific street, Richmond to Allen, Barber Asphalt Co., 1610 Arch street, $6,756.94. Sharp street, Salaignac to Haines street, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $3,291.65. Sprague street, Mt. Airy avenue to Gowen, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $15,274.06. Forty-sixth street, Market to Haverford avenue, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $39,231.20. Ardleigh street, Mt. Airy avenue to Gowen, Eastern Asphalt Co., Pennsylvania Building, Philadelphia , $16,-842. Coleman street, Fifty-eighth to Fifty-ninth street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $12,422. Middleton street and Woolstron street, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $20,-116.50. Queen street, Baynton to Rubicam street, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $5,668.95. Smedley, Sixty-sixth street, Sixty-seventh avenue, Barber Asphalt Co., 1600 Arch street, Philadelphia, $5,946.22. Woodcrest avenue, Sixty-sixth and Morris Park Line, Barber Asphalt Co., 1600 Arch streee, Philadelphia, $2,200.93. Beulah street and other streets, Barber Asphalt Co., 1600 Arch street, Philadelphia, $12,-418.75. Courtland street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $38,948. Dauphin street and Third street, Mack Paving Co., Nicetown lane and C street, Philadelphia, $31,574.25. Latona street, Twelfth to Thirteenth street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $3,757.30. Mifflin street and Tree street, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $19,413.50. Reed street, Sixth to Sixteenth street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $21,262.65. Sixteenth street, Bristol to Cayuga

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street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $8,122.27. Marse street and Reese street, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $4,893.29. Russell street, Tioga to Third, Eastern Asphalt Co., Pennsylvania Building, $20,131.15. First District, Union Paving Co., Thirtieth and Locust streets, $47,353.75. Fifth and Sixth and parts of Third District, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $71,510. Emery street and other streets, United Paving Co., Real Estate Trust Building, $14,773.63. Sansom street, Fourth to Fifth street, $14,773.63. Sansom street, Fourth to Fifth street, United Paving Co., Real Estate Trust Building, Philadelphia, $4,506. Second street, Ontario to Erie avenue, Municipal Paving Co., 702 Catherine street, Philadelphia, $19,367.25. Fountain street and Umbria street, United Paving Co., Real Estate Trust Building, $15,965.78. Tacony street, Duncan to Church street, United Paving Co., Real Estate Trust Building, $6,484.22. Eighth street, Somerset to Clearfield street, Allegheny, Joseph Salvucci, 512 North Sixty-fifth street, $23,924.50. Flat Rock road and Levering street, United Paving Co., Real Estate Trust Building, Philadelphia, $31,073.25. Passyunk, Schuylkill River to Sixty-third street, B. Foster Co., Twentieth and Venango streets, $12,566.50. Passyunk to Buist on Sixty-third, B. Foster Co., Twentieth and Venango streets, $10,100. Tenth street, Oregon to Johnson, Barber Asphalt Co., $12,842.84. Sixteenth street, Moyamensing avenue to Polock street, Barber Asphalt Co., 1600 Arch street, $14,667.36. Paving mixtures and blocks, Union Paving Co., $32,000.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Sunday School, Ogontz Avenue and Grange street, Philadelphia, $4,000. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Kemble Park Church, on premises. Brick, stone, cut stone, steel, 1 story and basement, 72x54 feet, slag roof, cement and pine floors, hollow tile, electric light, marble and terrazzo work, rolled steel sash, ornamental iron work, painting. Contract awarded to Henry P. Schneider, 3717 Old York Road.

Store (add.), 2330-32 South Seventh Street, Philadelphia, $4,100. Architect, private plans. Owner, W. Kaplan, 2330 South 7th street, Philadelphia. Brick, 2 story addition, 11x5 feet, slag roof, electric light. Contract awarded to H. Sill and J. Shoap, 527 Hoffman street, Philadelphia.

Storage Building, 661 North Holly Street, Philadelphia, $2200. Architect, private plans. Owner, John L. Herman, 4136 Lancaster Avenue, Philadelphia. Brick, 1 story, 20x70 feet, slag roof. Contract awarded to Leonard Will, 651 North Frazer Street, Philadelphia.

Residence (add.), 5013 Wakefield street, Philadelphia, $2,000. Architect, private plans. Owner, W. Perry, 5013 Wakefield Street, Philadelphia. Brick, 2 stories, 20x14 feet, addition. Contract awarded to Isaac King & Sons Co., 243 E. Master street, Philadelphia.

Buildings No. 9, 10, 11, Elmwood Avenue, between Sixty-eighth and Seventieth streets, Philadelphia. Architect, Harris & Richards, Drexel Building, Philadelphia, $1,500,000). Owner, General Electric Company, Witherspoon Building, Philadelphia. Brick, cut stone, steel (heating, electric and elevators, reserved), sprinklers, plumbing, railroad tracks, tanks and tank tower, (grating floors in pipe shaft reserved), gypsum slag roof, concrete floors, hollow tile, safety treads, roof ventilators, metal window guards, water and dampproofing, ornamental iron work, floor hardener iron stairs, fire, kalamein and hollow metal doors, rolled steel sash and skylights, tile, marble and terrazzo work, metal lath, rolled steel doors, linoleum floors, wood block floors, vault doors, granite tin clad doors Building No. 10, upper story, 601x106 feet. Building No. 11, 7 stories, 103x74 feet. Building No. 9, 100x75 feet, upper stories. Contract awarded Turner Const. Co., 1700 Walnut street, Philadelphia.

Bank (alts. and add.), Fifty-second and Market streets, Philadelphia. Architect, W. Lesher Blythe, 608 Chestnut street, Philadelphia. Owner, Market Street Title and Trust Company, A. Wilson, Jr., Fifty-second and Market streets. Brick, cut stone, steel, 2 stories and basement, 78x90 feet, slag roof, cement floors, hollow tile, (plumbing, heating, reserved), electric light, metal lath, rolled steel skylights, hollow metal doors. Contract awarded Jacob Myers Sons Co., 5100 Lancaster Ave., Philadelphia.

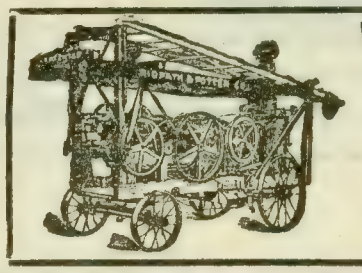
Drug Store, 5622 Germantown Ave., Phila. Architect, Edgar A. Wightman, Bankers Trust Bldg., Phila. Owner, Thornton F. B. Scott, care of Architect. Brich work, linoleum floors, carpentry and millwork, plastering, painting and glazing, steam heat electric light, tile and marble work, metal lath, metal bulks. Contract awarded Alber Zellfelder, 1424 Walnut St., Phila.

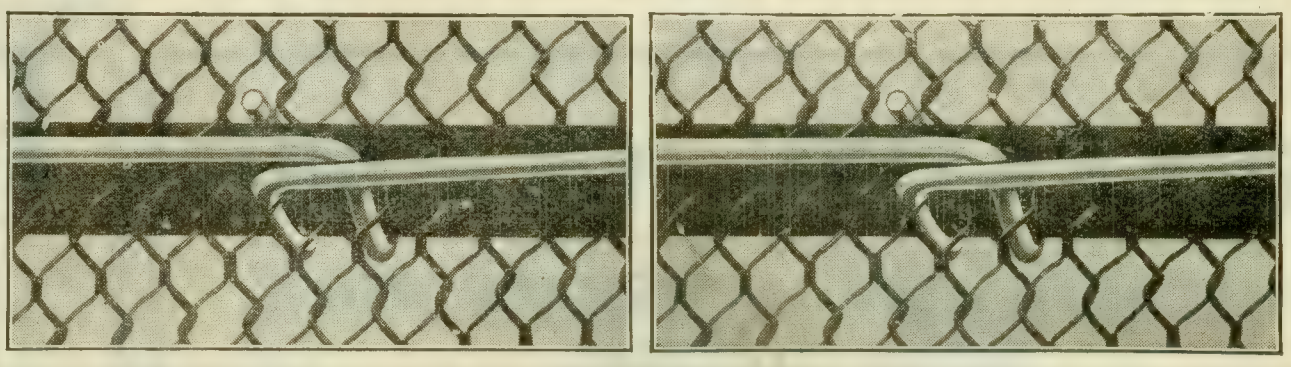
Store Building, 3055-57 Kensington avenue, Philadelphia. Architect, E. B. Medoff, Fox Building, Philadelphia. Owners, Fuld Furniture Co., on premises. Brick, cut stone, steel, limestone, 3 stories and basement, 32x66 feet, slag roof, oak and pine floors (plumbing, heating and electric separate bids), painting and glazing, metal lath, rolled steel sash, ornamental iron work, elevator doors. Contract awarded Charles S. Bannett, 1633 South Fifty-ninth street, Philadelphia.

Alterations and Additions to School, Forty-seventh and Springfield streets, Philadelphia. Architects, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, St. Francis de Sales, Rt. Rev. M. J. Crane, on premises. Stone, limestone, 2 stories and basement, 30x50 feet, slag roof, pine and cement floors, plumbing, plastering painting and glazing, roof ventilators, shoring, architectural terra cotta, ornamental iron work, bond, hollow metal doors and sash, tile, marble and terrazzo

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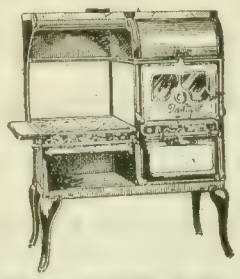
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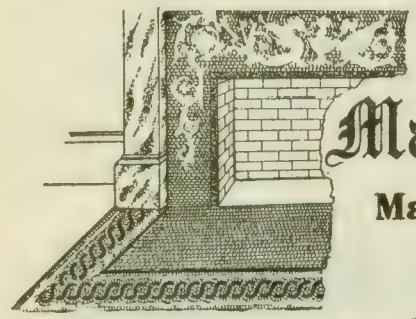
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work, electric light, metal lath, demolition, ornamental plaster. Contract awarded Farrell-Roth Const. Co., Twenty-first and Walnut streets, Philadelphia.

Residences (6), Fifty-first and Woodbine avenue, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Suburban Development Co., Pennsylvania Building, Philadelphia. Cinder block and stucco, 2½ stories and basement, 40x58 feet, 23x53 feet, 40x54 feet, tile and slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile and marble work, hollow metal sash, ornamental iron work. Contract awarded S. A. Sims Co., 2315 Walnut street, Philadelphia (not signed), who are taking sub-bids. (Note change in construction.)

Club House (alts. and add.), Northwest Corner Thirteenth and Master streets, Philadelphia. Architect, Conrad F. Neff, Twelfth and Locust streets, Philadelphia. Owners, Fidelity Club, on premises. Brick, 3 stories, 58x29 feet, tin and slag roof, composition and maple floors, painting and glazing, dampproofing, tile work, rolled steel sash, hollow metal skylights, tin-lined doors, bond, ornamental iron work, dumb waiter demolition. Contract awarded N. W. Bryan, 10 South Eighteenth street, Philadelphia.

Building (alts.), Southeast Corner Sixteenth and Market streets, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Heymann & Brothers, 213 South Broad street, Philadelphia. Brick, reinforced concrete, cut stone, steel, 2 stories and basement, 76x156 feet, cement floors, Barrett specification roof, steam heat, electric light, metal lath, hollow metal sash, ornamental iron work, plumbing, metal weather strip, waterproofing, architectural terra cotta, demolition, area gratings. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia.

Building (alts.), 1733 North Front street, Philadelphia. Architect, private plans. Owners, Allegheny Wagon Works, on premises. Fire alterations, carpentry and mill work, cement work, electric light, plastering, iron work, painting, steel sash. Contract awarded C. S. Bannett, 1633 South Fifty-ninth street, Philadelphia.

Building (alts. and add.), 3375 Woodland avenue, Philadelphia. Architect, private plans. Owner, Dr. Kabakjian, Lansdowne, Pa. Carpentry, mill work, electric light, brick work, heating, plumbing, painting. Contract awarded C. S. Bannett, 1633 South Fifty-ninth street, Philadelphia.

Residence and Garage, Northeast Corner Wakeling and Large streets, Philadelphia. Architect, G. Harold Murphy, 356 Drexel Building, 4308 North Broad street, Philadelphia. Owner, C. I. McDonough, care of Keystone State Const. Co., Franklin Bank Building, Philadelphia. Stone, cut stone, 2½ stories, 1 story and basement, 49x28 feet, garage, 20x22 feet, variegated slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, incinerator, oil burning, excavation. Contract awarded John F. Frotheringham, Castor road and Arrott street, Philadelphia.

Fire Station, Howard and Columbia avenue, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Safety, Bureau of Fire, 215 City Hall. Contract awarded S. Sidney Lewis, Real Estate Trust Building, Philadelphia.

Patrol Garage, 318 Florist street, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Safety, Bureau of Police, 215 City Hall. Contract awarded S. Sidney Lewis, Real Estate Trust Building, Philadelphia.

Gate Houses (2), Navy Yard, Philadelphia. Owners, Bureau of Yards and Docks, Navy Department, Washington, D. C. Contract awarded S. Sidney Lewis, Real Estate Trust Building, Philadelphia.

Save the Surface Bungalow, Sesqui-Centennial Grounds, Philadelphia. Architect, Albert N. Dobbins, 1709 Arch street, Philadelphia. Owners, Philadelphia Paint, Oil & Varnish Club, care of architect. Frame, 1 story, 45x33 feet, shingle roof, carpentry and mill work, electric light, tile work, ornamental iron work, cast stone. Contract awarded Carl F. Hirsch, 418 Ripka street, Philadelphia.

Romanian Building, Broad and Pattison streets, Sesqui Grounds, Philadelphia. Architect, Petre Antonesco, Bucharest, Roumania. Owners, Roumanian Government, Dimitri Demancesco, Attache, Washington, D. C. Metal lath, stucco, 2 stories, 50x60 feet (plumbing, heating, electric reserver), shingle roof, pine floors. Contract awarded David Lutz & Co., Twenty-third and Chestnut streets, Philadelphia.

Morton Memorial Building, East side Twentieth street, South of Pattison avenue. Architects, John A. Nyden, Chicago, Ill., and Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Swedish-American Sesqui-Centennial Association, Widener Building, Philadelphia. Brick, 2 stories and basement, 150x44 feet, copper roof, concrete floors. Contract awarded to George W. Wagoner, 909 South Twenty-fifth street, Philadelphia.

Stores (3) and Residneces (3), Northwest Corner Fifth and Spruce streets, $25,000. Architect, private plans. Owner, Reuben Feinstein, 309 South Fifth street, Philadelphia. Brick, 3 stories, 17 feet 6 inches x 39 feet 8 inches, slag roof, electric light, pine floors. Contract awarded to Harry Harad, 4942 C street, Philadelphia.

Garage, East side Lawrence street, North of Olney avenue, Philadelphia, $15,000. Architect, private plans. Owners, Ashton & Bade, 5312 North Fifth street, Philadelphia. Brick, 1 story, 50x100 feet, slag roof, cement floors, electric work. Contract awarded to John Ashton, 5302 North Fifth street, Philadelphia.

Residence, South side Southampton street, West of Stephen street, $14,000. Archieect, private plans. Owner, Walter G. Worthington, Somerton, Pa. Tile, 2 stories, 33x47 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to Charles T. Ely, Somerton, Pa.

Building, West side Broad street, Sesqui Grounds, Philadelphia, $30,000. Architects, C. H. Presser & Son, Hartford, Conn. Owners, State of Connecticut, Hartford, Conn. Frame, 1 story, 47x47 feet. Contract awarded to H. Wales Siner Co., Meriden, Conn.

Residence (alts.), 6916-18 Torresdale avenue, Philadelphia. Architect, private plans. Owner, William K. Deutch, Real Estate Trust Building, Philadelphia. General alterations. Contract awarded to George K. Stroup, Sixth and Race streets, Palmyra, N. J.

Warehouse (alts.), Southwest Corner Swanson and Kenworth streets, $2,500. Owners, Loos & Dilworth, Inc., 134 South Front street, Philadelphia. General alterations. Contract awarded to E. E. Hollenback, Inc., 1804 Brandywine street.

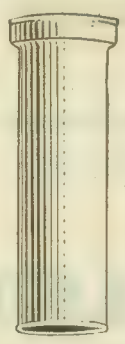
Residences (2), Southwest Corner Lawndale and St. Vincent street, $4,500 each. Architect, private plans. Owner, Lena Perlman, 1225 Cottman street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, pine floors, electric work. Contract awarded to Henry Perlman, 1225 Cottman street, Philadelphia.

Store and Residence (add.), 758 South Fourth street, Philadelphia, $3,500. Architect, private plans. Owner, J. Soltoff, 758 South Fourth street, Philadelphia. Brick, 1 story add., 15x16 feet, slag roof, pine floors. Contract awarded to Louis Branin, 432 McKean street, Philadelphia.

Residence, East side Camac street, South of Nedro avenue, Philadelphia, $2,500. Architect, private plans. Owner, Harry Goldfarb, 1018 Olney avenue, Philadelphia. Brick, 2 stories,

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work, electric light, metal lath, demolition, ornamental plaster. Contract awarded Farrell-Roth Const. Co., Twenty-first and Walnut streets, Philadelphia.

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Building (alts.), 1733 North Front street, Philadelphia. Architect, private plans. Owners, Allegheny Wagon Works, on premises. Fire alterations, carpentry and mill work, cement work, electric light, plastering, iron work, painting, steel sash. Contract awarded C. S. Bannett, 1633 South Fifty-ninth street, Philadelphia.

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Fire Station, Howard and Columbia avenue, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Safety, Bureau of Fire, 215 City Hall. Contract awarded S. Sidney Lewis, Real Estate Trust Building, Philadelphia.

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Morton Memorial Building, East side Twentieth street, South of Pattison avenue. Architects, John A. Nyden, Chicago, Ill., and Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Swedish-American Sesqui-Centennial Association, Widener Building, Philadelphia. Brick, 2 stories and basement, 150x44 feet, copper roof, concrete floors. Contract awarded to George W. Wagoner, 909 South Twenty-fifth street, Philadelphia.

Stores (3) and Residneces (3), Northwest Corner Fifth and Spruce streets, $25,000. Architect, private plans. Owner, Reuben Feinstein, 309 South Fifth street, Philadelphia. Brick, 3 stories, 17 feet 6 inches x 39 feet 8 inches, slag roof, electric light, pine floors. Contract awarded to Harry Harad, 4942 C street, Philadelphia.

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17x16f eet, 20x15 feet, steam heat, electric light. Contract awarded to C. Martin, Jr., 5842 North Twelfth street, Philadelphia.

Building, Northeast Corner Twentieth and Montgomery avenue, Philadelphia. Architects, Newbauer & Supowitz, 929 Chestnut street, Philadelphia. Owner, Louis Ellikofsky, care of architect. Brick, steel, 1 story, 70x67 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, hollow metal skylights. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia.

Apartment Houses (3), Roosevelt Boulevard, East of Palethorpe, $50,000 each. **Apartment Houses (2),** Roosevelt Boulevard, Palethorpe and Mascher streets, $30,000 each. **Garage,** Ashdale street, between Mascher and Palethorpe, $41,000. Owner, Morris Weiner, Flanders Building, Philadelphia. Brick, 2 stories, 18x74 feet, 12x17 feet each, slag roof, hardwood and pine floors, hot water heat, electric light, tile work, garage, brick and steel, 1 story, 162x70 feet, cement floors. Contract awarded to Lippman & Cohen, 4635 North Ninth street, Philadelphia.

Official Photo Building, Northwest Corner Broad and Hoyt streets, $15,000. Architect, Gabriel B. Roth, 1629 Chestnut street, Philadelphia. Owner, J. B. Cardinelli, 2921 South Broad street, Philadelphia. Frame, 1 story, 75x100 feet, slag roof, electric light. Contract awarded to Frank Tilli, 935 Kenmore road, Philadelphia.

Residence (add. and alts.), 5117 Chestnut street, Philadelphia, $5,000. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owner, Dr. C. B. Gordy, Fifty-second and Lancaster avenue, Philadelphia. Brick, 2 stories add., 16x15 feet, general alterations. Contract awarded to C. S. Miller, 1484 North Fifty-second street, Philadelphia.

Residence, 5322 James street, Philadelphia, $4,000. Architect, private plans. Owner, Mrs. George Boerkle, 5320 James street, Philadelphia. Brick, 2 stories, 15x36 feet, slag roof, pine floors, hot air heat, electric light. Contract awarded to E. M. Carlston, 3224 Higbee street, Philadelphia.

Church (alts.), Northeast Corner Fourth and Vine streets, Philadelphia, $3,500. Architect, private plans. Owners, St. George's Methodist Episcopal Church, on premises. General alterations. Contract awarded to A. Earl Barnes Co., 2044 East Clementine street.

Garage, 3948-50 Botts street, Philadelphia, $2,500. Architect, private plans. Owner, Wesley De Frehm, 3824 North Fifteenth street, Philadelphia. Brick, 1 story, 42x33 feet, slag roof, cement floors. Contract awarded to Frank Radomski, 4329 North Sixteenth street, Philadelphia.

Store and Residence (add. and alts.), 2843 West Girard avenue, $4,000. Architect, private plans. Owner, Jennie M. V. Kelly, 1950 Greenhill avenue, Philadelphia. Brick, 1 story add., 20x30 feet, general alterations. Contract awarded to Herman Guthner, 1322 North Twenty-eighth street, Philadelphia.

Garage (alts.), 1223-25 North Twenty-sixth street, Philadelphia, $3,000. Architect, private plans. Owner, William Cassidy, 866 North Twenty-sixth street, Philadelphia. General alterations. Contract awarded to Richard Glathey, 2306 North Twenty-sixth street, Philadelphia.

Store and Residence (add.), 5407 Christian street, Philadelphia, $2,500. Architect, private plans. Owner, John J. Hamilton, 5407 Christian street, Philadelphia. Brick, 1 story add., 8x20 feet, slag roof, pine floors. Contract awarded to D. F. Foley, 1109 West Indiana avenue, Philadelphia.

Garage, 6512 Lincoln Drive, Philadelphia, $2,000. Architect, private plans. Owner, Gilbert F. Foote, on premises. Stone, 1 story, 16x33 feet, cement floors. Contract awarded to L. Lombardi & Bros., 208 East Wister street.

Shelter Sheds (5), Southeast Corner Twentieth and Pattison avenue, $30,000. Architect, private plans. Owners, Bus Terminal, Inc., Twelfth and Walnut streets, Philadelphia. Frame, 80x22 feet. Contract awarded to David Lutz Co., Inc., Twenty-third and Chestnut streets.

Garage (add.), 2017 North Front street, Philadelphia, $29,000. Architect, private plans. Owner, Meyer Sperling, Bankers' Trust Building, Philadelphia. Brick, second story add., 72 feet x irregular, slag roof, cement work. Contract awarded to Lewis Swerdloff, 228 South Fifty-ninth street, Philadelphia.

Sesqui Gladway, Oregon avenue, West of Broad street, Philadelphia, $15,000. Architect, Charles E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, Joseph F. Millard, 326 North Fortieth street, Philadelphia. Frame, 1 story, 15x63 feet. Contract awarded to H. M. Irwin, 1613 Ranstead street, Philadelphia.

Residence (add.), Southeast Corner Hartwell and St. Martin streets, $8,500. Architect, private plans. Owner, John W. Claghorn, on premises. Tile, 2 stories add., 19x28 feet, hardwood and pine floors, electric work. Contract awarded to W. J. Gruhler Co., 219 East High street, Philadelphia.

Residence, Southwest Corner Frankford and Aubrey streets, Philadelphia, $7,500. Architect, private plans. Owner, Joseph J. Schlickling, 4014 North Fifth street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to John Fotheringham, 1000 Arrott street, Philadelphia.

Residence, South side Disston street, West of Frontenac street, $7,500. Architect, private plans. Owner, Peter Wasch, 3130 Chatham Square, Philadelphia. Frame, 3 stories, 22x35 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to William J. Niblick, 3039 Janney street, Philadelphia.

Store (alts.), 1824 East Clearfield street, Philadelphia, $5,800. Architect, private plans. Owner, Victor Sternberg, 1915 East Clearfield street, Philadelphia. General alterations. Contract awarded to William Carr, 3550 Jasper street, Philadelphia.

Manufacturing Building (alts. and add.), Salmon and Westmoreland streets, $5,700. Architects, Webber & Wurster, 1530 Locust street, Philadelphia. Owners, Monarch Mfg. Works, Inc., on premises. Brick, 1 story, 17x40 feet, steam heat, slag roof, cement floors, plumbing, rolled steel sash, oil tanks (electric reserved). Contract awarded to A. Earl Barnes Co., 2044 East Clementine street.

Residence and Garage, North side Gates street, North of Shalkop street, $22,000, architect Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Harry Kaufman, Gates street, Roxborough, Philadelphia. Vrick, 3 stories, 29x43 feet, 26x12 feet, garage, 1 story, 21x21 feet, hardwood, pine floors, cement floors, hot water heat, electric work. Contract awarded to W. R. Evans, Penfield, Pa.

Residence, 5131-33 Germantown avenue, Philadelphia, $12,500. Architect, private plans. Owner, Max Fleigleman, 5131 Germantown avenue, Philadelphia. Brick, 2 stories, 34x34 feet, 34x18 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to Joseph Goldfarb, 2440 South Reese street, Philadelphia.

Residence and Store (alts.), 820-22 North Second street, Philadelphia, $7,000. Architect, private plans. Owner, Jacob Spector, 822 North Second street, Philadelphia. General alterations. Contract awarded to Joseph Goldfarb, 2440 North Reese street, Philadelphia.

Garage, North side Hoffman street, East of Fifty-eighth street, Philadelphia, $4,000. Architect, private plans. Owner, F. H. Thole, 1200 South Fifty-eighth street, Philadelphia. Brick, 1 story, 18x99 feet, slag roof, cement floors, electric work. Contract awarded to J.

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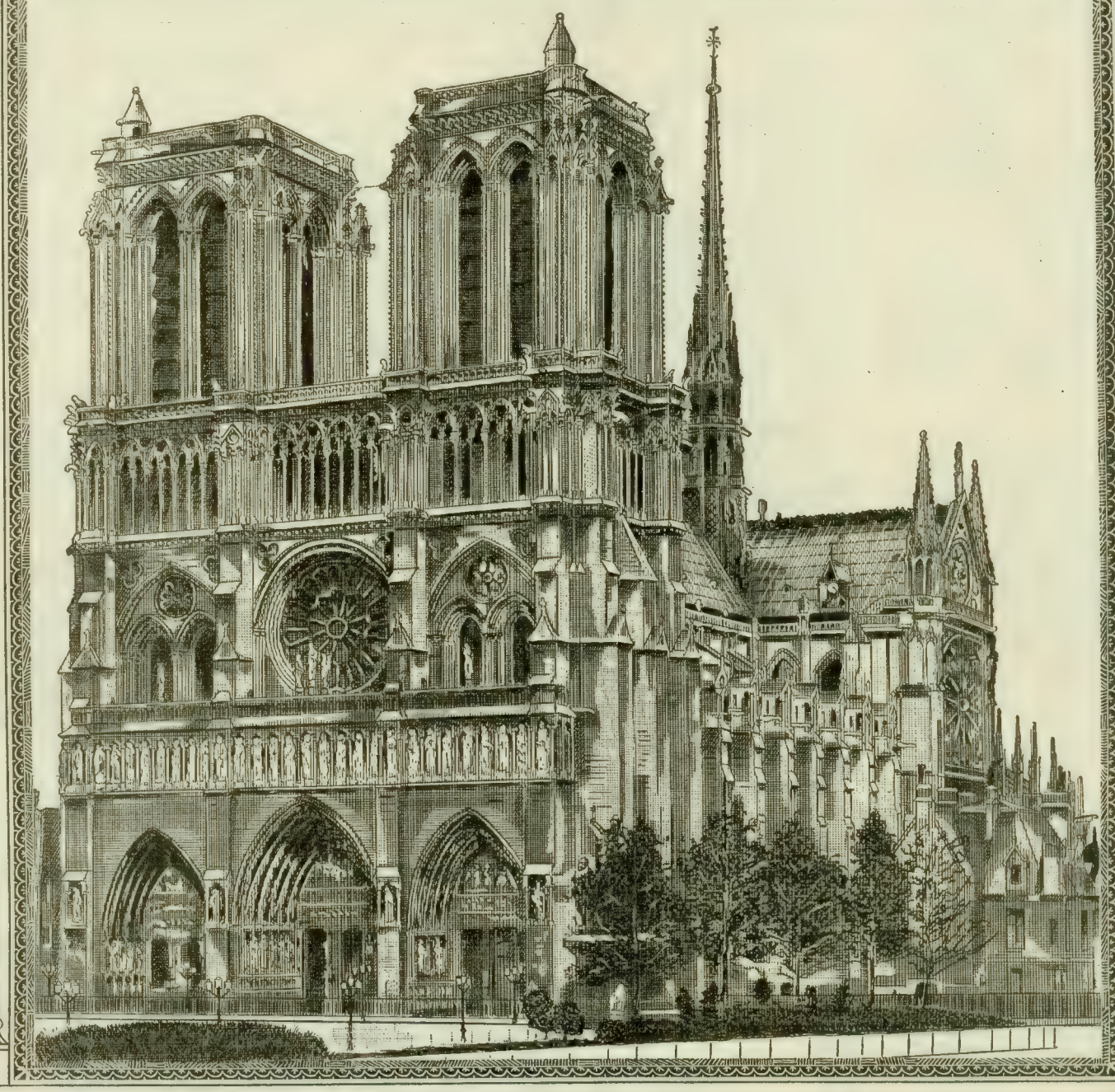
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CATHEDRAL OF NOTRE DAME · PARIS · FRANCE ·



OF ALL the noble structures in Paris, France, the first in importance is the cathedral of Notre Dame. It is one of the finest Gothic monuments in existence.

The plan of the edifice is that of a regular cross. At the western extremity are two towers which form conspicuous objects from most parts of the city, and were evidently intended to support spires.

The date of this church is variously given, or rather it has been achieved, like most ancient cathedrals, at different epochs, beginning in the eleventh century. The high altar was consecrated in 1082, the western front, designed by Maitre Jehan de Chelles, was built in 1223. The last addition is a small portal and was erected in 1407 by Jean Sans Peur, Duke of Burgundy, the assassin of the Duke of Orleans, in expiation of his crime.

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NUMBER 4 OF A SERIES OF "FAMOUS STRUCTURES OF THE WORLD"

D. Fisher, 5436 Thompson street, Philadelphia.

Garage, Southeast Corner Susquehanna and Sedgley avenues, Philadelphia, $3,000. Owners, Thomas E. Coale Coal Co., Twenty-sixth and Sedgley avenue, Philadelphia. Iron, frame, metal, 1 story, 40 x irregular. Contract awarded to Allen Scull, 4918 Osage avenue, Philadelphia.

Store (alts.), 13 North Third street, Philadelphia, $3,000. Archt. Wm. L. Charr, Victory Bldg., Philadelphia. Owner, Joseph Simon, 11 North Third street, Philadelphia. General alterations. Contract awarded to Daniel Goldman, 1617 South Orkney street, Philadelphia.

Pennsylvania Construction News

School, Jeffersonville, Montgomery County, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Phila. Owner, West Norristown School District, Jeffersonville, Pa. Brick, cut stone, cement block, steel, 2 stories and basement, 144x115 feet, (plumbing, heating, electric and ventilating, res.), gray block slate roof, slag roof, cement and pine floors, hollow tile, metal lath, bond, ornamental iron work, iron stairs, area grills, waterproofing, limestone. Low Bidders: Frank Schuler, Norristown, Pa., $69,461. Frank Heavner, Norristown, Pa., $71,000. Heating and ventilating, Crissman and Quillman, Norristown, $15,690. Plumbing, Crissman and Quillman, Norristown, Pa., $5,030. Electricity, Crissman and Quillman, Norristown, $3,036.

High School, York Road and Horsham Road, Hatboro, Pa. Architect, Heacock and Hokanson, 1211 Chestnut Street, Philadelphia. Owner, School Board of Hatboro, Pa. Brick, cut stone, steel, 1 story and basement, 165x76 feet, (heating, plumbing, ventilating, kitchen and cafeteria equipment, reserved), asbestos shingle roof,, cement, pine, composition, tile and marble floors, hollow tile, metal lath, bond, iron stairs, ornamental iron work, granite precast stone, concrete block, area gratings, steel casement sash, composition treads. Low bidders: Roy Randall, Jenkintown, Pa., $74,985. Wills Bill Co., 1706 Sansom street, Philadelphia, $77,666.

Convent, Scranton, Pa. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owners, St. Ann's Roman Catholic Church, Rev. P. Darrah, care of architect. Brick, veneer, 3 stories, 30x80 feet. Plans in progress.

Residence (alts.), Quincy avenue, Dunmore, Pa., $50,000. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, M. J. Dempsey, 1701 Quincy avenue, Dunmore, Pa. General alterations, hardwood floors, tile and marble. Plans in progress.

Parochial School, South Main street, Scranton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, St. John the Baptist German Roman Catholic Congregation, Rev. F. A. Fricker, 410 South Main street, Scranton, Pa. Semi-fireproof, 2 stories and basement, 8 rooms, Barrett roof, yellow pine floors, hollow tile, terra cotta, steel sash, metal lath (heating, plumbing and electric separate). Plans in progress.

Y. M. C. A., Norristown, Pa. Architects, H. Gordon McMurtrie, 1012 Walnut street, and Thomas, Martin & Kilpatrick, 220 South Sixteenth street, Philadelphia. Owners, Y. M. C. A. Building, Norristown, Pa. Preliminary plans in progress.

Dormitory, Chambersburg, Pa. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Wilson College, Dr. Warfield, Chambersburg, Pa. Stone and brick. Sketches being drawn. Too early for details.

School, Lansdale, Pa. Owners, Lansdale School Board, H. L. Ruth, president, Citizens' Bank, Lansdale, Pa. Brick, 12 rooms. Work contemplated.

High School, Tamaqua, Pa., $500,000. Architect, not yet selected. Owners, Tamaqua School Board, A. B. Seal, president, 606 East Broad street, Tamaqua, Pa. Brick. Contemplated.

Hospital, Quakertown, Pa. Architect, not selected. Owners, Quakertown Hospital Association, Harold G. Kittleman, president, Merchants' National Bank, Quakertown, Pa. Contemplated.

Store and Apartment, Plymouth, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Brick, 2 stories, 24x60 feet, slag roof, hardwood floors, steam heat, electric light. Plans in progress.

School, Warrior Run, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Warrior Run School Board, C. Wagner, secretary, Warrior Run. Brick, stone, 2 stories and basement, 8 rooms. Plans in progress.

Mill Building, Wilkes-Barre, Pa. Architect, Gilbert G. Jocobesky, Miners' Bank Building, Wilkes-Barre. Owners, Newark Silk Co., Paterson, N. J. Brick, steel, concrete, 2 stories and basement, 63x171 feet, slag roof, maple floors, hollow tile, steam heat, electric light, tile work, steel sash, skylights. Architect ready for bids.

Church, Nescopeck, Pa. Architect, H. G. Cook, Miners' Bank Building, Wilkes-Barre, Pa. Owners, St. Mark's Lutheran Church, Rev. E. S. Erbb, Nescopeck, Pa. Concrete block, steel, 1 story and balcony, 40x110 feet, asbestos shingle roof, maple floors, vapor heat, electric light, metal lath. Owners will build.

Bank and Apartment, Forty Fort, Pa. Architect, L. V. Lacy, 45 Oliver street, Wilkes-Barre, Pa. Owners, Forty Fort State Bank, A. A. Killian, 66 Myers street, Forty Fort, Pa. Brick, terra cotta and steel, 3 stories, 50x92 feet, built-up roof, maple floors, steam heat, electric light, tile work, rolled steel sash, vault. Architect will be ready for bids in one week.

Garage, 702-08 Union avenue, Allentown, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, Jacob Feinberg, 201 Lehigh avenue, Allentown, Pa. Steel, brick, 1 story and basement, 106x220 feet, slag roof, concrete floor, steam heat, electric light, steel sash, fire doors. Owner will take sub-bids.

Jewish Community Center, Allentown, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owners, Jewish Community Center, Hyman Rockmater, care of architect. Steel, brick, 3 stories and basement, 88x160 feet, slag roof, concrete floors (heating, plumbing and electric reserved), safety treads, metal lath, tile and marble work. Architect taking sub-bids.

Residence (alts. and add.), Main street, Souderton, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Dr. Earl T. Beale, Main street, Souderton, Pa. Brick, frame, mineral stucco, hardwood floors, plumbing, tile work, wrought iron work. Plans about completed. Architect will be ready for sub-bids in one week.

Residence, William Penn, below North Wales, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, E. Kerrigan, North Wales, Pa. Stone, 2 stories, 26x40 feet, slate roof, hardwood floors, hot water heat, electric light. Plans completed. Owner ready for sub-bids.

Residence and Garage, Lansdale, Pa. Architect, Jerome S. Landes, Souderton, Pa. Owner, Frank Weaver, Main street and White road, Souderton, Pa. Frame, wood shingle, 2 stories, 22x40 feet, asbestos shingle roof, hardwood and pine, tile, mineral and cement floors, vapor heat (vacuum), electric light, tile work. Plans completed. Architect taking sub-bids.

Stores and Apartment, Edgemont avenue, Chester, Pa. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, H. M. Farson, 28 North Annapolis avenue, Atlantic City, N. J. Brick, 2 stories, 33x75 feet, slag roof, pine floors, hot water heat, electric light, metal lath. Owner will build.

Convent, Clearfield, Pa. Architect, P. J. Morris, Mears Building, Scranton, Pa. Owners, St. Francis' Roman Catholic Church, Rev. A. E. Leitzinger, Clearfield. Brick, 3 stories, 44x68 feet, slag roof, hardwood floors, cut stone, ornamental iron, iron stairs, leaded glass, tile work, city heat, electric light. Architect and owners taking bids.

Morris School, West Scranton, Pa. Architect, F. J. Miller, Brooks Building, Scranton, Pa. Owners, Scranton School Board, J. D. Hughes, secretary, Administration Building, Scranton, Pa. Brick veneer, 2 stories and basement, 12 rooms, hardwood floors, hollow tile, safety treads, roof ventilators, metal weather strip, metal ceilings, waterproofing and dampproofing, ornamental iron, iron stairs, bond, skylights, steel sash, tile and marble, metal lath (heating, plumbing and electric separate). Architect taking bids due May 24th.

Madison School, West Scranton, Pa. Architect, F. J. Miller, Brooks Building, Scranton, Pa. Owners, Scranton School Board, J. D. Hughes, secretary, Administration Building, Scranton, Pa. Brick veneer, 2 stories and basement, 12 rooms, hardwood floors, hollow tile, safety treads, roof ventilators, metal weather strip, metal ceilings, waterproofing and dampproofing, iron stairs, ornamental iron, bond, skylights, steel sash, tile and marble, metal lath (heating, plumbing and electric separate). Architect taking bids due May 24th.

Store and Office (alts. and add.), Easton, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Farr Brothers, Inc., 739 Hamilton street, Allentown, Pa. Brick, 1 story, 30x79 feet, slag roof, hardwood floors, electric light. Architects taking revised bids.

Silk Mill, Northampton, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Eugene M. Silverbach, 25 West Tenth street, Northampton, Pa. Brick, steel, 1 story, 127x66 feet, slag roof, roof ventilators, electric light, steel sash, fire doors, cast stone. Architect taking bids.

Lodge Building, Second avenue and Fayette

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street, Conshohocken, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, Knights of Columbus Home Association, A. Desimone, chairman, Conshohocken, Pa. Brick, steel, 3 stories. Architect taking bids due as soon as possible.

Sales and Service Building, Drexel Hill, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Henry Statzell, Drexel Hill, Pa. Brick, steel, 1 story, 70x54 feet, slag roof, cement floors, steam heat, electric light, tile work. Architects taking bids due as soon as possible.

Residence & Garage, No. 589, Haverford, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, John Condon, care of Turner Const. Co., 1700 Walnut street, Philadelphia. Hollow tile, stucco, 2½ stories and basement, Spanish tile roof, oak and pine floors, hot water heat, electric light, tile and marble work, ornamental iron work. Architects taking bids due as soon as possible.

School, West Hazleton, Pa. Architect, P. B. Sheridan, Marble Bank Building, Hazleton, Pa. Owners, Hazleton School District, Hazleton, Pa. Owners taking bids due May 6th.

School Supplies, Elkins Park, Pa. Owners, School District of Cheltenham Township, Cheltenham, Pa., Mr. A. L. Rowland, superintendent of schools. Owners taking bids due May 14th for window shades, electric lighting fixtures, cafeteria kitchen equipment, home economics, laboratory equipment.

Residence (alts. and add.), Jefferson avenue, Scranton, Pa. Architect, P. J. Morris, Mears Building, Scranton, Pa. Owner, M. T. Roratsos, 846 Jefferson avenue, Scranton, Pa. Frame, stucco, 3 stories, 48x36 feet, tile roof, hardwood floors, electric light, tile work. Architect taking bids due no set date.

Residence (alts. and add.), Jenkintown, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Mr. W. H. Fretz, Jenkintown, Pa. Architects taking bids due May 7th, 2 P. M.

High School, Bangor, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, School District, Borough of Bangor, Reimer Speer, Bangor, Pa. Brick, steel, 2 stories, built-up roof, maple floors, hollow tile. Lowest bidder: John Stiles, Bangor, Pa., $142,581.

Pennsylvania Contracts Awarded

Junior High School (add.), Willow Grove, Pa. Architect, T. Frank Miller, 1012 Walnut street, Philadelphia. Owner, School Board, Upper Moreland Township, Dr. J. K. Wood, President; Mrs. M. J. Lenning, Secretary, Willow Grove, Pa. Brick, reinforced concrete, limestone, 1 story, 120x32 feet, 2 wings, (plumbing, heating, electric and ventilating, separate), metal lath, bond, ornamental iron work, tin and slate roof, maple and cement floors. Contract awarded Stahl & Walton, Willow Grove, Pa.

Mill Building (add.), Easton, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Gunning Silk Co., Easton, Pa. Brick, reinforced concrete, steel, 1 story, 163x118 feet, gypsum slag roof, cement floors, hollow tile, safety treads, rolled steel sash, saw-tooth skylights, tin-clad doors, floor hardener, ornamental iron work, rolled steel shutters, painting and glazing, steel partitions. Contract awarded Bechtel & Bechtel, Easton, Pa.

Apartment House, 850 Parker street, Chester, Pa. Architect, private plans. Owner, Fred P. Peale, Chester, Pa. Brick, steel, 4 stories and basement, 60x95 feet, slag roof, oak, pine and cement floors, plumbing, kitchen equipment, Murphy door beds, incinerator, hot water heat, electric light, tile work, metal lath, ornamental iron work. Contract awarded to F. K. Worley Const. Co., Wesley Building, Philadelphia.

Warehouse, West Pine street, Mahanoy City, Pa. Architect, private plans. Owner, Harry Haldeman, Mahanoy City, Pa. Brick, steel, slow burning, 3 stories and basement, 30x65 feet, asphalt roof, cement and maple floors, hollow tile, plumbing, limestone, sheet metal work, electric light. Contract awarded to Stofflet & Tillotson, Wesley Building, Philadelphia, who are taking sub-bids due May 8th.

Store and Apartment Building, West Center street, Mahanoy City, Pa. Architect, private plans. Owner, W. C. Milus, Mahanoy City, Pa. Brick, steel, 3 stories and basement, 25x68 feet, vapor heat, electric light, tile and marble work, wood sash, asphalt roof, wood floors, plumbing, plastering, carpentry and mill work, painting and glazing, sheet metal. Contract awarded Stofflet & Tillotson, Wesley Building, Philadelphia, who are taking sub-bids due May 8th.

Tenant House, Radnor, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owner, Isaac H. Clothier, Radnor, Pa. Concrete block and stucco, 2½ stories, 18x65 feet, slate roof, pine and cement floors, hot water heat, electric light. Contract awarded J. D. Lengel, Wayne, Pa.

Basement Church, Rising Sun and Robbins avenue, Lawndale, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Williams' Parish, Rev. William A. Motley, on premises. Stone, cut stone, brick, steel, 1 story, 155x79 feet (plumbing, heating, electric reserved), Barrett specification roof, cement floors, carpentry and mill work, painting and glazing, ornamental iron work, metal lath. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia, but not yet signed.

Residence (alts. and add.), New Garage, Strafford, Pa. Architect, J. Linard Connaroe, 225 South Sydenham street, Philadelphia. Owner, Dr. S. Clapper, Strafford, Pa. Stone, 1½ stories, 25x20 feet, hot water heat, electric light, shingle roof, cement floors, plastering, painting and glazing, plumbing, hardware, carpentry and mill work. Contract awarded William H. Eddleman, 453 Green lane, Philadelphia.

Boiler House, Crum Creek, Power Plant, near Media, Pa. Architect, private plans. Owners, Philadelphia Suburban Water Co., Mr. Davis, president, Fox Building, Philadelphia. Hollow tile, stucco, 1 story, 42x49 feet, slag roof, cement floors, rolled steel sash, ornamental iron work. Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia.

Residence and Garage, Haverford, Pa. Architects, De Armond, Ashmead & Bickley, 22 South Fifteenth street, Philadelphia. Owner, Dr. Maxwell H. Langdon, 1530 Locust street, Philadelphia. Brick, 2½ stories, 48½x27 feet, 30x20 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble work. Contract awarded Penn Building Co., 2029 Stenton avenue, Philadelphia, who are ready for sub-bids.

Garage, Hatboro, Pa. Architect, private plans. Owners, Oscar Nebel Co., Hatboro, Pa. Brick, steel, 1 story, 40x32 feet, slag roof, cement floors, metal work, rolled steel sash. Contract awarded William F. Lotz, 4644 Frankford avenue, Philadelphia.

Residence (alts. and add.), Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, Thomas Moyles, 114 Park avenue, Wilkes-Barre, Pa. Brick, concrete, 2 stories and basement, 40x33 feet, slag roof, hardwood floors, steam heat, electric light. Contract awarded to J. J. Gibbons, Avoca, Pa.

Stores (2) and Apartments, Bethlehem, Pa. Architect, H. J. Wiegner, Bthlehem Trust Building, Bethlehem, Pa. Owner, F. F. Rogers, 1023 North Main street, Bethlehem, Pa. Brick, 3 stories, 45x73 feet, slag roof, pine floors, electric light. Contract awarded to F. B. Glassmire, Bethlehem Trust Building, Bethlehem, Pa.

Church, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, St. Joseph's Slavoc Church, care of architects. Steel, stone, 1 story and basement, 54x119 feet, slate roof, hardwood floors, steam heat, electric light, metal lath, tile and marble, rolled steel sash, rubber tile. Contract awarded to J. J. Gibbons, Avoca, Pa.

Sunday School, Auditorium and Parish House, Scranton, Pa. Architects, E. H. Davis and George M. D. Lewis, Union Bank Building, Scranton. Owners, Church of Good Shepherd, Rev. B. Beach, Scranton, Pa. Steel, brick, limestone, 2½ stories, 40x100 feet, Barrett roof. Contract awarded to S. Sykes & Son, 1229 Penn avenue, Scranton, Pa.

Sunday School and Parish House, Wilkes-Barre, Pa. Architects, T. A. Atherton and Thomas Foster, 139 South Main street, Wilkes-Barre. Owners, Presbyterian Congregation, Rev. P. Heath, Wilkes-Barre, Pa. Stone, brick, steel, 3 stories and basement, 45x200 feet, slate roof. Contract awarded to Shepherd Const. Co., Wilkes-Barre, Pa.

Theatre, Williamsport, Pa. Architect, F. A. Rianhard, Masonic Temple, Williamsport, Pa. Owners, Lycoming Amusement Co., W. P. Wilson, treasurer, 152 West Fourth street, Williamsport, Pa. Contract awarded to Jacob Gehren Co., Inc., Williamsport, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Fayette County, A-3656-57, Upper and Lower Tyrone Township. One course reinforced concrete. Contract awarded to Pratt & Moore, Hollidaysburg, Pa., $127,283.72.

Warren County, R-279, A-3953, Sugar Townshsip and Borough, 11,809 feet. Either bituminous surface course on concrete foundation or one course reinforced concrete. Contract awarded to F. L. White Co., Warren, Pa., $92,783.29.

Schuylkill County, R-161, Sec. 2, Frackville and Gilberton Boroughs, West Mahanoy Township. One course reinforced concrete pavement and hillside vitrified brick. Contract awarded to James Christiana, Shamokin, Pa., $179,464.92.

Berks County, R-197, A-3372, S-2, Oley, Exeter, Upper and Lower Alsace Townships. One course reinforced concrete. Contract awarded to Michael Staub, Reading, Pa., $210,693.42.

York County, A-3940, East Hopewell Township, 4,676 feet. One course reinforced concrete. Contract awarded to York Eng. & Const. Co., York, Pa., $36,480.20.

Tioga County, R-478, A-3963, Westfield Borough. One course reinforced concrete. Contract awarded to A. W. Hinaman, Williamsport, Pa., $30,477.81.

Northampton County, A-2227-2228, $177,-200.80. Contract awarded to Juniata Co., Empire Building, Philadelphia.

York County, R-449, A-3547, Newberry Township, Goldsboro Borough, 15,597 feet. One course reinforced concrete. $107,721.10. Contract awarded to Continental Const. Co., Baltimore, Md.

Residence, Nazareth, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, David Koch, Nazareth, Pa. Brick, 2 stories, 24x30 feet, slate roof, hardwood floors, hot water heat, electric light. Contract awarded to Wick & Simon, Nazareth, Pa.

New Jersey Construction News

Miscellaneous Work. Detention House, Pensauken, N. J. Engineer, J. J. Albertson, Court House, Camden, N. J. Owners, Detention Home Comm., F. F. Riggin, Pensauken, N. J. Galvanized fence, 1284 feet, 4500 cubic yards. Top Soil. Certified check 10%. Owners taking bids due May 10, 11 A. M. (D. S. T.)

Linden School (Annex), Linden street, East of Tenth street, Camden, N. J. **Whittier School (add.),** Eighth and Chestnut streets, Camden, N. J. Architect, Edwards & Green, Camden, N. J. Owner, Board of Education, M. Wessel, 416 City Hall, Camden, N. J. Owner taking bids due May 10th 2 P. M.

Bridge (Reconstruction), Delaware Township, N. J. Engineer, J. J. Albertson, Court House, Camden, N. J. Owners, Bridge Committee, Stokes Prickett, Chairman, Court House, Camden, N. J. Concrete abutments, 20 feet span, 18 feet roadway, wood floors, Bond. Certified check 10%. Owners taking bids due May 10th at 11.45 A. M. (D. S. T.)

State Street Bridge (alts.), Over Cooper River, Camden, N. J. Engineer, J. J. Albertson, Court House, Camden, N. J. Owners, City of Camden, Bridge Committee, City Hall, amden. New wood tops, 154 feet long, 26 feet wide, 7 inches thick, Bond. Certified check 10%. Owners taking bids due May 10th, 11.30 A. M. (D. S. T.)

Essex Bridge, Over Newton Creek, Camden, N. J. Engineer, J. J. Alberson, Court House, Camden, N. J. Owners, Bridge Committee, Camden County, Court House, amden, N. J. Furnishing and erecting 12 ornamental standards, Bond. Certified check 10%. Owners taking bids due May 10, 11.55 A. M. (D. S. T.)

Equipment Building, Pensauken, N. J. Architects, Lackey and Hettel, 5 Hudson Ave., Camden, N. J. Owners, Pensauken Township, R. V. Peabody, 24 S. Union Avenue, Pensauken. Owners taking bids due May 10th at 8 P. M. $25.00 deposit—refunded. Certified check 5%.

Sidewalks, etc., Camden, N. J. Owners, Board of Education, Room 16, City Hall, Camden, N. J., care of Meyer Wessel, Chairman, Property Committee. Laying cement sidewalks, paving school yards. To be finished between June 1st, 1926 and May 31st, 1927. Owners taking bids due May 3rd at 2 P. M. Certified check $25.00.

Bank Building, Haddon and Collings avenues, Collingswood, N. J. Architect, J. T. Brugger, Public Ledger Building, Philadelphia. Owners, Collingswood Trust Co., J. T. Par, vice-president, Collingswood, N. J. Stone, brick, 2 stories and mezzanine, 52x90 feet. Preliminary plans in progress.

Bank Building (alts. and add.), Pitman, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, Pitman National Bank, Pitman, N. J. Frame, 1 and 2 stories, 46x74 feet. Plans in progress.

Fire House, Riverside, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Fire Company No. 1, Riverside, N. J. Brick, cut stone, 2 stories and basement, 117x40 feet, asphalt roof, reinforced concrete floors, vapor heat, electric light. Plans in progress.

Bank, Stores, Theatre and Garage, King's Heights and Mt. Ephraim, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, S. Raymond Dobbs, Fairview, N. J. Architects selected.

Theatre, Bellvue avenue, Hammonton, N. J. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owner, Samuel Frank, Hammonton, N. J. Brick, 1 story. Sketches drawn.

Store and Apartments, Haddon avenue, near Kaighn avenue, Camden, N. J., $12,000. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Broadway Realty Co., care of architect. Remodeling 2 story building, 40x85 feet, slag roof, pine floors, hot water heat, electric light. Plans in progress.

Store (alts.), Haddon avenue and Division street, Camden, N. J., $8,500. Architect, A. B. Gill, 328 Market street, Camden, N.J. Owners, Broadway Realty Co., care of architect. Alterations to 2 story building, 25x50 feet, slag roof, pine floors, hot water heat. Plans in progress.

Residence, Morris Heights, N. J. Architects, Fowler & Michel, 224 East Hanover street, Trenton, N. J. Owner, R. E. Anderson, care of architects. Concrete block and stucco, 2½ stories, 30x50 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

Church, Flemington, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Flemington Baptist Church, Rev. Dr. Wilson, Flemington. Brick, steel, 1 story and balcony, 45x100 feet, slate roof, maple floors, hollow tile, ornamental iron, metal lath, steam heat, electric light, metal lath. Plans in progress.

Residence, Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Walter C. Slack, care of architects. Stone, 2½ stories, 65x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Weikel avenue, Merchantville, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, G. W. DeLancey, Merchantville, N. J. Timber, 2 stories, 24x30 feet, shingle roof, pine floors, electric light. Owner taking bids.

Apartment House, Merchantville, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, George W. Sheppard, Merchantville, N. J. Cinder block and stucco, 3 stories, 30x80 feet, slag and tile roof, hardwood floors, electric light, tile work. Owner taking sub-bids.

Store and Apartment, Laurel Springs, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Charles Draude, Haddon and Carman avenues, Camden, N. J. Brick, 2 stories, 40x70 feet, slag roof, pine floors, electric light. Owner will build.

Residences (19), 2755-91 Congress road, Camden, N. J., $76,000. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owner, Benjamin Zorochoff, 7046 North Broad street, Philadelphia. Brick and block, 2 stories, 18x34 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Police Station, Pensauken Township, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Pensauken Township, M. Braunworth, Chairman Building Committee, Delaware Gardens, Camden, N. J. Brick, 2 stories, 29x37 feet, slag roof, concrete floors, electric light, tile and marble, fire doors. Architects taking bids due May 10th.

Residences (3), 2991-93-95 Sumter road, Camden, N. J., $12,000. Architect, private plans. Owners, Fairview Home Building Co., 2760 North Congress road, Camden, N. J. Block and stucco, 2 stories, 16x40 feet and 18x40 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Jail, Bridgeton, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, Board of Freeholders, Cumberland County, William Phifer, Bridgeton, N. J. Owners taking bids due May 10th, 2 P. M. (Daylight Saving Time).

Asylum, Bridgeton, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, Cumberland County Asylum, E. C. Ott, Chairman, Bridgeton, N. J. Architect taking bids on plumbing, heating and electric due May 10th, 2 P. M.

School, Haddonfield, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Board of Education, B. M. Wilson, secretary, Haddonfield, N. J. Low bidders: H. J. Homan, Eighteenth and Cherry streets, Philadelphia, $374,430; George W. Shaner & Son, Palmyra, N. J., $387,380. Heating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $40,494, add $4,944, add $7,800; N. Connolly, 1404 North Eighteenth street, Philadelphia, $40,777, add $3,700, add $7,765. Plumbing, Harry Knecht, West Collingswood, N. J., $22,614. Electric, J. F. Buchanan Co., 1904 Sansom street, Philadelphia, $20,987.

Grade School, Westville, N. J. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of Education, Westville, N. J. Low bidders: J. D. Lawrence, Westville, N. J., $38,944, $793. Electric, Enterprise

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TILE COMPANY
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INTERIOR AND EXTERIOR
CLEMENTON, N. J.
Mosaic Ceramic and Quarry Tile Floors
Bell Phone – Laurel Springs 112 R 2

TILE
MARBLE
MOSAIC
CERAMICS
Camden Tile Co.
1484 Bradley Avenue
CAMDEN, N. J.
BELL PHONE
CAMDEN 3827 W

GENERAL INSURANCE
SMITH-AUSTERMUHL CO.
5th and Market Streets, Camden, N. J.
BELL PHONE, CAMDEN 3210
KEYSTONE, CAMDEN 3147
SURETY BONDS

Elec. Co., 239 North Tenth street, Philadelphia, $869. Plumbing, J. P. Muldoon, care of owner, $1,900. Heating, American Heating & Ventilating Co., Schaff Building, Philadelphia, $3,292, $754.

New Jersey Contracts Awarded

Residence, Princeton, N. J. Architect, E. B. Gilchrist, 1618 Latimer street, Philadelphia. Owner, Edward Sampson, Princeton, N. J. Frame, brick, veneer, 3 stories, shingle roof, maple floors, vapor heat, electric light. Contract awarded Bregenzer Bros., Hopeville, N. J.

Residence, 829 Lois Avenue, Camden, New Jersey, $3,000. Architect, private plans. Owners, King and Wark, 905 North Thirtieth street, Camden, N. J. Frame, 1½ stories, 24x34 feet, asbestos roof, pine floors, hot air heat, electric light. Contract awarded to Isaac King & Sons Co., 882 Beidemann Avenue, Camden, N. J.

School (alts. and add.), Beach Haven, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, Beach Haven School Board, M. Crammer, secretary, Beach Haven. Brick, steel, 2 stories, 80x25 feet, slate and slag roof, maple floors, safety treads, roof ventilators, steam heat, electric light, metal lath, bond, reinforced concrete stairs. Contracts awarded: Bennett-McLaughlin Co., 3260 Ludlow street, Philadelphia, $30,825. Heating, Harry Knecht, Collingswood, N. J. Plumbing, Charles H. Leupold, Camden, N. J.

Cape May Court House, Cape May County, N. J. Architects, Edwards & Green, Camden, N. J. Owners, Board of Chosen Freeholders, T. M. Hand, Clerk, Cape May Court House, N. J. Contract awarded Bennett-McLaughlin, 3260 Ludlow street, Philadelphia, $152,640. Plumbing, W. H. Kentner, Wildwood, N. J., $10,170. Heating, Baldwin Ventilating Co., 1628 Ludlow street, Philadelphia, $19,197. Electric, John F. Dalton, Millville, N. J.

Residence, Princeton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Edward Brophy, 80 Nassau street, Princeton, N. J. Brick, stucco, 2½ stories, 24x36 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to J. A. Maher, Trenton, N. J.

School and Meeting House (alts.), Moorestown, N. J. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Friends' Society of Moorestown, N. J. Maple floors, slate roof, bond, cement work, brick work, structural steel, metal ceilings, plastering, painting and glazing, waterproofing, iron work. Contract awarded H. B. Miller, Edgewater Park, N. J.

Residence, 127 North Virginia avenue, Atlantic City, N. J. Architect, Benjamin Brown, Guarantee Trust Building, Atlantic City, N. J. Owner, Dr. Charles McGuire, 28 North Delaware avenue, Atlantic City. Cinder block and stucco, 2 stories, 19x60 feet, Spanish tile roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to M. Seiger, 1910 Arctic avenue, Atlantic City.

Bank, Glassboro, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, First National Bank of Glassboro, N. J. Brick, reinforced concrete, steel, 1 story, mezzanine and basement, 60x50 feet, slag roof, cement floors, plumbing, roof ventilators, painting and glazing, ornamental iron work, bluestone, cinder block, area gratings, metal lath, tile and marble work. Contract awarded Barclay-White Co., 1713 Sansom street, Philadelphia.

Residence, Haddon Heights, N. J., $23,000. Architect, Arthur B. Gill, 328 Market street, Camden, N. J. Owner, P. G. Coulter, care of architect. Hollow tile, 2½ stories, 28x46 feet, slate roof, oak and pine floors, hollow tile, hot water heat, electric light, metal lath. Contract awarded to M. C. Pennell, Merchantville, N. J.

Residences (4), 627-29-31-31½ Spruce street, Camden, N. J., $14,000. Architect, Harold Allen, 526 Stevens street, Camden, N. J. Owner, Louis H. Goerlich, care of architect. Brick, 2 stories, 14x46 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Lewis T. West, Fifth and Royden streets, Camden.

Garages (3), Building (add. and alts.), 2772 Federal street, Camden, N. J. Architect, Alfred Green, Philadelphia. Owner, George C. Helker, 426 North Thirty-sixth street, Camden, N. J. Brick, 8x17 feet, general alterations, garages, block, 1 story, 12x17 feet, 8x17 feet, slag roof, cement floors. Contract awarded to Leon W. Friant, 929 Kimber street, Camden, N. J.

Miscellaneous Construction News

Hotel, Dover, Del. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owner, name withheld. Brick. Sketches being prepared. Too early for details.

Stores and Residence, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, care of architect. Brick, steel, 2 stories, 32x50 feet, composition roof, hot water heat, metal lath, electric light, metal weather strip, plate glass, metal work. Plans in progress. Architect ready for bids May 4th.

Apartment Building, 831 West Sixth street, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Ellen R. Ford, Ninth and Franklin streets, Wilmington, Del. Brick, 3 stories, 14x60 feet, composition roof, oak floors, metal weather strip, hot water heat, electric light, metal lath, tile work. Owner taking sub-bids and will build.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Owners taking bids due May 26th at 2 P. M. Deposit of $2 required. Certified check, 10 per cent.

Contract CS51, Delmar toward Columbia, 3.00 miles. Clearing, grubbing, excavation, borrow, cement concrete pavement, longitudinal metal joint, non-metallic joint, Class A concrete, reinforcement, corrugated metal pipe, R. C. pipe, wood shoulder curb, iron gratinsg.

Contract CS52, Seaford Cut Off, .85 mile. Excavation, cement concrete pavement, longitudinal metal joint, sand asphalt surface course, corrugated metal pipe, R. C. pipe, cast iron gratings.

Contract C619D, Summit Bridge Approaches, .40 mile. Excavation, cement concrete pavement, longitudinal metal joint, wood shoulder curb.

Contract 65, Kitt's Hammock Road, 3.00 miles. Excavation, borrow, slag base course, secondary pavement, corrugated metal pipe.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Low bidders:

Contract 62, White Oak Road Addition, 1.50 miles, George & Lynch, Dover, Del., $11,732.50.

Contract 63, Gums Crossroads-Laurel Road, 2.32 miles. Old Line Const. Co., Chestertown, Md., $19,365.

Contract CK-34, Smyrna-Wendall's Corner, 1.90 miles. George & Lynch, Dover, Del, Stone, metal joint, $56,335; non-metal, $55,830; slag, metal, $55,725; non-metal, $55,220.

Contract CS50, Concord-Hardscrabble, 4.97 miles. Highway Eng. & Const. Co., Selbyville, Del. Stone, $128,071. Slag, $124,471. Sand, $103,101.

Safety is an intensely positive, not a negative principle. The leaders of the safety movement have never used the slogan "safety first," except in the steel mills, railroad shops and factories where it was first and rightly used. As a general pholisophy of life, safety does not mean a timid shrinking from the strenuous life normal—to every healthy person, it means living life to the full, but living it the right way which is the safe way. Safety forbids nothing except what is forbidden by common sense and decent consideration for others.

In the steel industry, birth-place of the modern safety movement, the fatalities per million hours worked have decreased 50 per cent in the past ten years. This is the average of the group of companies doing safety work. Individual companies in the steel and other industries have reduced the frequency and severity of accidents by 75 per cent and even 90 per cent. The direct economic savings have exceeded the cost of the safety work, to say nothing of the improvement in morale.

Today accidents are a more prolific cause of suffering and death than war. During the 19 months in which the United States was more or less actively engaged in the world conflict, the total mortality among American soldiers from all causes was 77,101. During the same 19 months, 136,000 persons lost their lives through accidental means although they were engaged in the pursuits of peace.

Industrial accidents cost the business men of America more than a billion dollars annually, points out C. B. Scott, President of the National Safety Council, who states that most of this loss can be saved as accidents don't happen, but are caused by hazards which can be eliminated through educational methods and safeguards. Mr. Scott's hope that more business men will enlist in the country-wide safety movement is worthy of the consideration of people in this industry.

The other day a prominent local architect called up to inquire regarding a concern that has not advertised with us for two years. "I saw their ad. some years ago in the Guide," said the architect, "and am unable to recall just where they are located." We gave him the address and learned subsequently that as a result the firm bagged a big order. How many similar orders, from architects who wouldn't take the trouble to look them up, that same concern has missed in the course of the past two years it would interest us to know.

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
Architectural Cast Cut Stone Co.....Westmont, N. J.

ARCHITECTURAL IRON WORK
Quaker City Art Metal Works,
2445 N. Second St., Phila.

ARTESIAN WELLS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
Blue Print Shop.....1520 Sansom St., Phila.
Robbins, Chas. H., Co.....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER.
Blue Print Shop.....1520 Sansom St., Phila.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
H. M. & C. M. Siner..Church and Tacony Sts., Phila.
Excelsior Brick & Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving).
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
Mitchell Bros. .....2125 Race St., Phila.
Reiser, M. J. .....4238 Old York Road, Phila.
Joseph Rotornado.....4740 Milnor St., Phila.

BUILDERS' SUPPLIES.
Service Supply Corporation,
20th and Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
Huskey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
Architectural Cast Cut Stone Co. ...Westmont, N. J.
Vineland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
The Van Sciver Corporation.
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
D'Lauro, John .....55 E. Mermaid Lane, Phila.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

COLUMNS (Metal).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE SEWER PIPE.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila

CONCRETE WORK.
Harsch, Wm. F. .....Narberth, Pa.
Massiah, Frederick.. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
Devitt, Paul J. .....1101 S. 2nd St., Phila.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation, 20th and Venango Sts.

CORK FLOORING
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

CURTIS WOODWORK.
Gillingham Co ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
Building News Pub. Co. ...1530 Chestnut St., Phila.

DAMPPROOFING.
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger.....829 N. 3rd St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Master Builders Co., ...Otis Bldg., Phila.
Truscon Laboratories.....1505 Race St., Phila.

DOOR BEDS
Murphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F. Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

EXCAVATING.
Harsch, Wm. F. .....Narberth, Pa.
Sanitary Sewage Disposal Corp..40 S. 52nd St., Phila.

FENCES.
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Potts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St,. Phila.

FINANCING (BUILDING)
Commercial Advance Corp., 1011 Chestnut St., Phila.
Mortgage Extension Corp.,.1011 Chestnut St., Phila.

FIREPROOFING.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES.
E. Lingo & Son .....Camden, N. J.

FLOOR HARDENER.
Anti-Hydro Waterproofing Co., 24th and Parkway.
Concrete Waterproof Paint Co...829 N. 3rd St., Phila.
Master Builders Co., ...Otis Bldg., Phila.
Truscon Laboratories.....1505 Race St., Phila.

FLOORING (Rubber Tile).
Hamilton Rubber Mfg. Co. ..2313 Walnut St., Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. .....44 N. 5th St. Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.

GAS RANGES.
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GRADING
Harsch, Wm. F. .....Narberth, Pa.

GRANITE
Architectural Cast Cut Stone Co. ...Westmont, N. J.
John Meehan & Son.....916 W. Dakota St., Phila.
Vineland Architectural Cast Stone Works,
Vineland, N. J.

HARDWARE (Builders').
Devitt, Paul J. .....1101 S. 2nd St., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....7038 Gray's Ave., Phila.

HEATING BOILERS.
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.

HOLLOW TILE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

HOT WATER GENERATORS.
Edwin Elliot Co. .....560 N. 16th St., Phila.

INSURANCE.
Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
1711 Chestnut St., Phila.
Smith-Austermuhl Co. .....Camden, N. J.

IRON AND STEEL BARS AND PLATES.
Nicetown Plate Washer Co.1844 W. Juniata St., Phila.
Potts, Horace T. & Co. ....Erie Ave. and D St., Phila.
Wood, Alan, Iron & Steel Co...Widener Bldg., Phila.

IRON AND STEEL (Structural and Ornamental)
DeCou, Richard Co. .....11th and Noble Sts., Phila.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Livezey, Thos. H. ..American and Luzerne Sts., Phila.
Montgomery Iron & Steel Co..918 W. Berks St., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Reisbord, Wolf.....4437-43 Ludlow St., Phila.
Whartenby, Harry A. .....10 S. 18th St., Phila.

KITCHEN CABINETS.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.

LEVELS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

LIGHTING FIXTURES.
Longaker, Abram F. .....Bourse Bldg., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LIGHT IRON CONSTRUCTION.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LINOTILE.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

LUMBER.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Ketcham, Howard.....3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

LUMBER (Wholesale).
J. Randall Williams & Co.,
1031 Commercial Trust Bldg., Phila.

MARBLE AND MOSAIC.
Acorn Tile Co. .....Clementon, N. J.
Belfi Bros. Co. .....1923 Market St., Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. .....433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.
Roman Mosaic & Tile Co. .....435 Green St., Phila.
Wm. G. Wilson.....2313 Walnut St., Phila.

MASON BUILDER.
D'Lauro, John .....55 E. Mermaid Lane, Phila.

METAL LATH.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
John S. Raynor.....2300 E. Lehigh Ave., Phila.

METERS.
Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

MILLWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS.
Weber, F., Co. .....125 S. 12th St., Phila.

PLASTERER.
Joseph Rotornado.....4740 Milnor St., Phila.

PLASTERERS' SAFETY CLIPS.
John S. Raynor.....2300 E. Lehigh Ave., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., Phila.

PORCH ENCLOSURES.
Malia, Thomas .....226 W. Mentor St., Phila.

RADIATOR CABINETS.
Radiator Cabinet Co. .....Drexel Bldg., Phila.

RANGES.
Abram Cox Co....American and Dauphin Sts., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ....1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

REFRIGERATORS.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co.....1026 Arch St., Phila.

REINFORCING BARS.
Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
Nicetown Plate Washer Co., Inc.,
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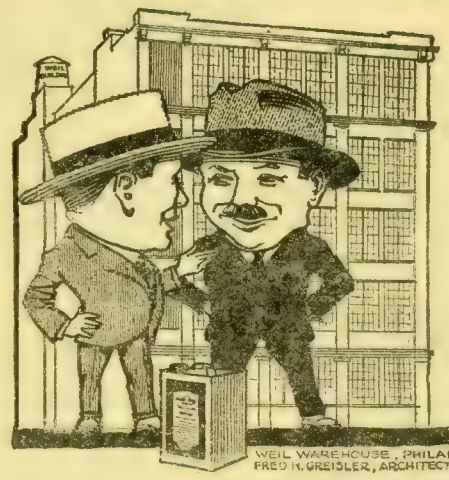
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 19
May 12, 1926

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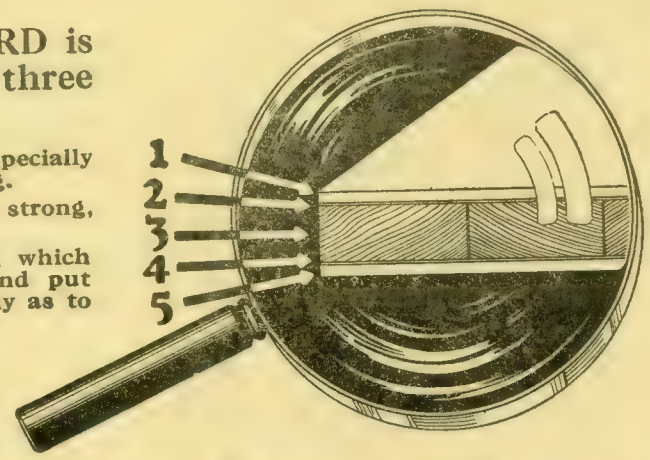
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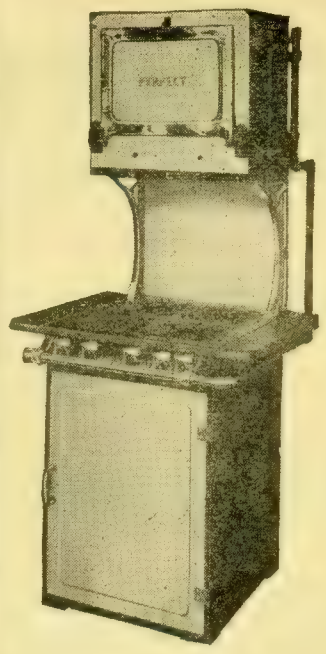
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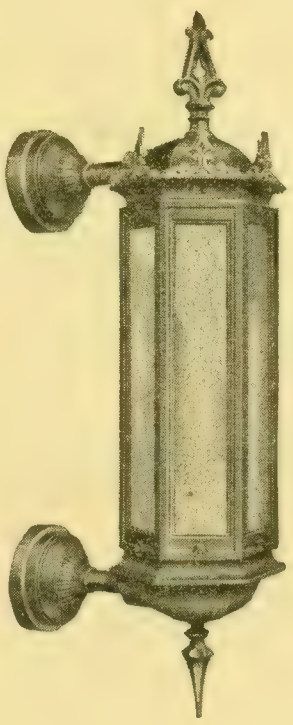
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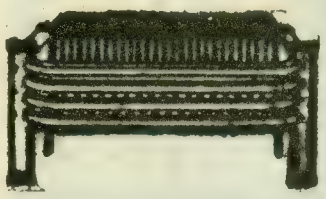
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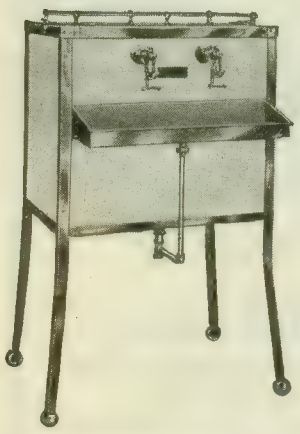
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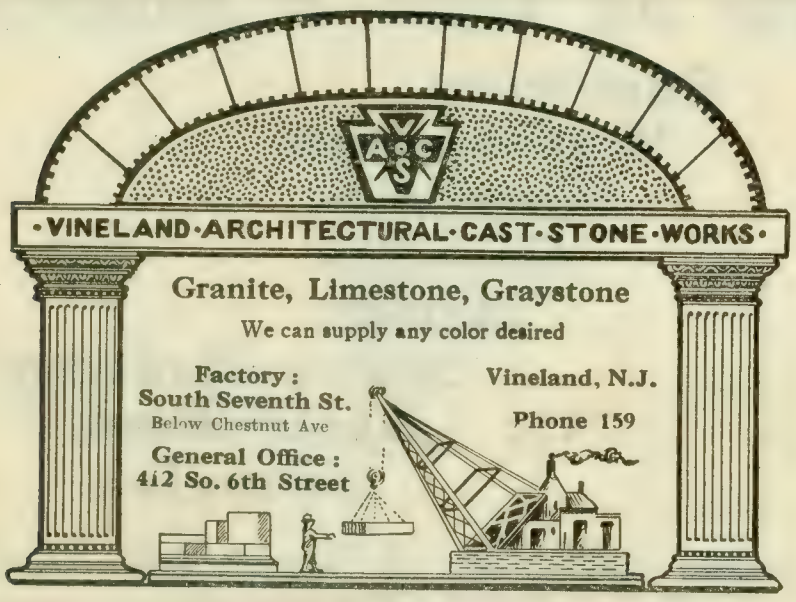
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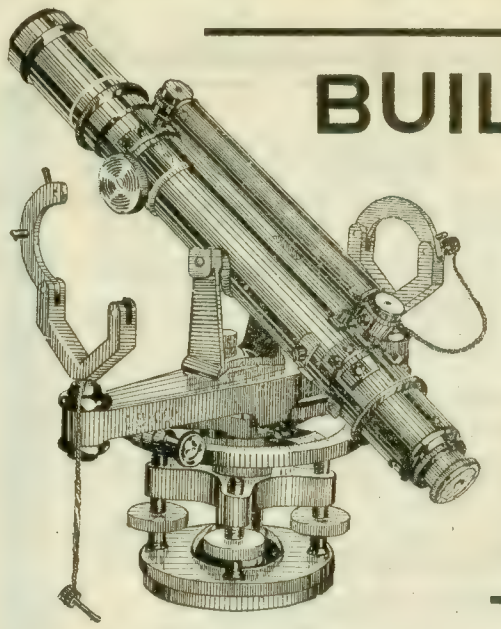
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 19

PHILADELPHIA
May 12, 1926

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Medico Chiurgical College, Nineteenth and Lombard streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Brick, granite, cast stone, steel, 9 stories and basement, 136x64 feet, 60x54 feet, asphalt roof, cement and linoleum floors, elevators, metal lath, tile and terrazzo work, kalamein and hollow metal doors, bond, ornamental iron work, painting and glazing, cork insulation, cinder block, casement sash, metal partitions, lockers. Revised plans in progress.

Church and Sunday School, Ridge Avenue near Lyceum Avenue, Philadelphia. Architect, Heacock and Hokanson, 1211 Chestnut street, Philadelphia. Owner, Roxborough Baptist Church, H. Foster Wilcox, 467 Gerhardt Street. Architect taking bids due May 20th, 4.30 P. M.

Interior Finish of Building (First to fourteenth floor), Nineteenth and Arch streets, Philadelphia. Architect, Eugene Stopper, 10 South Eighteenth street, Philadelphia. Owner, Jacob C. Kahn, Morris Building, Philadelphia. Cement work, hollow tile, bronze work, steel furniture, kitchen equipment, plumbing, iron work, plastering, tile and marble work, metal lath, kalamein work. Architect taking bids due May 15th.

Laundry and Garage, southwest corner 55th and Sansom street, Philadelphia. Architect, Clarence Wunder, 1520 Locust street, Philadelphia. Owner, Security Bank Note Co., 223 Chestnut street. Brick, 1 story, 47x17 feet, 22x19 feet, slag roof, cement floors, rolled steel sash. Architect taking bids due May 17th.

Garage and (2) Stores, Smedley street above Tioga, Philadelphia. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owners, Trinity Church, care of architect. Brick, 1 story, 55x20 feet, cement floors, electric light, gas heat. Plans in progress.

Stores (3), Apartments (6), Castor road and Brighton street, Philadelphia. Architect, J. Naschold, 5234 North Second street, Philadelphia. Owner, name withheld. Brick. Plans in progress. Too early for details.

Apartment House, Northeast Corner Forty-eighth and Osage avenue, Philadelphia. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, Samuel Elgart, 4713 Chester avenue, Philadelphia. Brick, 4 stories, 68 apartments, 41x103 feet, connecting wings 20x22 feet each building, vapor heat, electric light, tile and marble work, slag roof, hardwood and composition floors, linoleum, 2 elevators, Murphy door beds, incinerators, kitchen equipment. Plans in progress.

Residences (78), Ogontz avenue and Sixty-eighth street, Twentieth and Wyncote, Philadelphia. Architect, private plans. Owner, J. Henry Parker, 5583 York road, Philadelphia. Brick, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Owner taking sub-bids.

Residences (85), Devereaux, Van Dyke, Hegerman streets, Philadelphia. Architect, private plans. Owner, C. A. Mahon, 5640 North Fifth street, Philadelphia. Brick, 2 stories, (54) 14 feet 6 inches x 26 feet, pine floors, electric light, hot water heat, (31) 14¾x35 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, garages in basement. Owner will build.

Residences (68), Edna street, between Fourth and Fifth streets, Philadelphia. Architect, private plans. Owner, Louis Segal, 5602 North Tenth street, Philadelphia. Brick, 2 stories, 15x40 feet, slag and tin roof, hardwood floors, cement work, metal lath, hot water heat, electric light, metal lath, tile work, garages in basement. Owner will build. Work to start in one month.

Hotel Irving, 915-17 Walnut street, to Sansom street, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owners, Joseph E. Becker and David Rosen, 411 Walnut street, Philadelphia. Steel, brick, stone, 5 stories and basement, 55x235 feet, slag roof, maple floors, hollow tile elevators, roof ventilators, metal ceilings, shoring, flagstone, ornamental iron work, iron stairs, copper bulks, fire kalamein doors, hollow metal sash and skylights, tile, marble and terrazzo work, metal lath, electric light, steam heat. Architect taking sub-bids due at once. Owners building.

Residences (2), Stenton avenue and Gorgas Lane, Philadelphia, $30,000. Architect, Frank Green, 1221 East Washington lane, Philadel-

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Residence and Garage, Washington lane and Crittenden street, $20,000. Architect, Frank Green, 1221 East Washington lane, Philadelphia. Owner, Ralph Christo, care of architect. Stone, 2½ stories, 25x40 feet, garage 20x21 feet, variegated green slate roof, hardwood floors, electric refrigeration, tile and marble, hot water heat, electric light. Architect taking sub-bids.

Apartment House, 3502 Baring street, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, steel, concrete, 4 stories, 72x104 feet, steam heat, electric light, slag roof, hardwood, composition, rubberoid floors (44 apartments), elevators, tile and marble work, electric refrigeration, incinerator, sheet metal work, fire and kalamein doors, ornamental iron work. Architect taking sub-bids.

Store (alts. and add.), Northwest Corner Broad and Girard avenue, Philadelphia. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, J. P. Bailey, care of architect. General alterations, hot water heat, carpentry and mill work, plastering, plate glass, metal bulks and cornices, electric light. Plans about completed. Ready for bids.

Auto Sales, Garage and Service Station, Sixteenth and Hunting Park avenue. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner and builder, S. Kaplan, 243 South Sixty-second street, Philadelphia. Reinforced concrete, structural steel, brick, 2 stories, 170x127 feet x irregular, slag on concrete roof, concrete floors, steam heat, plate glass, oil burning, electric light, rolled steel skylights, fireproofing, ornamental iron work. Owner will build and is taking sub-bids.

Residence and Garage, East side Twelfth street, North of Sixty-fifth avenue, Oak Lane. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owner, Leon E. Weiss, 5123 North Eleventh street, Philadelphia. Brick, cinder block, stucco, steel, 2½ stories and basement, 70x27 feet, garage 18x18 feet, asbestos shingle roof, oak and pine floors, electric light, metal lath, tile work, bond, ornamental iron, flagstone. Architects taking bids due May 13th.

Stores and Apartments (4), Northwest Corner Bainbridge and Leithgow streets. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, J. Goldstein, care of architect. Brick, 3 stories, 17x51 feet, slag roof and tin roof, pine floors, hot water heat, electric light, tile work, metal bulks, metal ceilings, plate glass. Architect taking bids due May 14th.

Shop and Office Building (alts.), 425-27 Lehigh avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, Herman Goldner, on premises. Brick, hollow tile work, ornamental terra cotta, plans and reinforced concrete work, cement work, tin clad fire doors, elevator doors, rolling steel shutters, miscellaneous iron and steel work, carpentry and mill work, hardware, metal lath and plastic, marble and tile work, painting and glazing, shoring, bond, slag roof, rolled steel skylights, steel sash, metal store front, maple floors, rolled steel skylights (plumbing, heating, electric and elevators reserved). Architects taking bids due May 17th.

Store Building, 1915-19 Chestnut street, Philadelphia. Architects, W. H. Gravell and A. W. Hall, Otis Building, Philadelphia. Owner, name withheld. Brick, cut stone, steel, 4 stories and basement, 153x40 feet, slag roof, cement floors, elevators, painting and glazing, plumbing, vapor heat, electric light, tile work, metal lath, bond, ornamental iron work, sprinkler systems, plate glass, galvanized iron skylights. Architects taking bids due May 13th.

Bank (alts.), Forty-fourth and Lancaster avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Empire Title & Trust Co., William Powers, president, on premises. General alterations, 3 stories and basement, electric work, plumbing, hardware, painting and glazing, metal lath, plastering, sheet metal work, steel and iron work, carpentry and mill work, masonry work. Architect taking bids due May 13th.

Alterations and Additions, Southwest Corner Hunting Park and Wayne avenues. Architect, Sigmund Laschenski, Harrison Building, Philadelphia. Owners, St. Ladislas Parish, Rev. J. Kuezgnski, on premises. Stone, new, 2 stories add., 178x50 feet (plumbing, heating, electric reserved), slag roof, maple floors, roof ventilators, metal lath, rolled steel sash, ornamental iron work, iron stairs, concrete work, cement work, stone work, cast stone, bond, carpentry and mill work, maple floors, Ousteal windows, steel painting and glazing, steel stairs, metal toilet partitions, tin-lined doors. Architect taking bids due May 20th.

Mill Building, Northeast Corner Umbria and Lemonte streets, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Manayunk Plush Co., Charles W. Horrocks, 109 Levering, Manayunk. Brick, re-

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inforced concrete, steel, 1 story, 58x45 feet, slag and asphalt roof, cement floors, safety treads, plumbing, hollow metal sash and doors, ornamental iron work, metal toilet partitions. Architect taking bids due May 14th.

Residences (68), Summerdale avenue and Alcott street, Philadelphia. Architect, private plans. Owner, Victor Schwartz, 4825 North Lawrence street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Owner will build. Ready for bids in a few days.

Residences (16), Widener Place and Sixth street, Philadelphia. Architect, private plans. Owner, Joseph Cutler, 1811 North Seventh street, Philadelphia. Brick, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Plans in progress. Ready for bids in a few weeks.

Sunday School Building, Frankford, Philadelphia. Architect, S. D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Stone, 2 stories, 40x70 feet, slate roof, pine floors, electric light. Preliminary plans in progress.

Garages (5), Chestnut Hill, Pa. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Brick, 1 story, 20x40 feet, slag roof, electric light, hot water heat, cement floors. Plans in progress.

Store and Apartment (alts. and add.), 1628 Fairmount avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Thomas J. Minnich, North American Building, Philadelphia. General alterations and additions. Plans in progress.

Residence and Garage, Frankford, Philadelphia, $12,000. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 24x42 feet, 12x20 feet, slate roof, hardwood and cement floors, hot air heat, electric light, tile work. Plans completed. Architect ready for sub-bids.

Residence (alts. and add.), Frankford, Philadelphia. Architect, Samuel D. Milner, 1117 Foulkrod street, Philadelphia. Owner, name withheld. Brick, stone, hardwood floors, painting storm enclosure, tile work. Plans completed. Architect ready for sub-bids.

Residences (16), South side Rexford Square, West of Fifty-second street, Philadelphia, $8,000 each. Architect, Clyde S. Adams, Twentieth and Spruce streets, Philadelphia. Owner, Robert Olhausen, 1519 Pennsylvania Building, Philadelphia. Concrete block, stucco, 2½ stories, 16x42 feet, slate and slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Convent, Farragut and Springfield avenue, Philadelphia. Architects, H. D. Dagit & Son, 1329 Race street, Philadelphia. Owners, St. Francis de Sales, Rt. Rev. M. J. Crane, on premises. Plans about completed. Architects will be ready for bids in a few days.

Rooming House (alts.), Northeast Corner Fortieth and Sansom streets, $5,000. Architect, private plans. Owner, William T. Harris, 3944 Chestnut street, Philadelphia. General alterations. Permit granted.

Apartment Building (alts.), 1243 North Sixtieth street, Philadelphia, $2,000. Architect, private plans. Owner, M. Hardel, 5821 Lansdowne avenue, Philadelphia. General alterations. Permit granted.

Rails, Splice Bars, Bolts, Nut Locks, Screw Spikes, Contract No. 123, Broad Street Subway, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Owners taking bids due May 21st, 11 A. M. (Standard Time). Certified check 5 per cent. of bid. Deposit, $10, refunded.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 216 City Hall. Improvement of York road, from Sparks street North to Broad street, etc. Certified check 5 per cent. of bid. Inquire Room 232.

Kensington Recreation Center (add.), Berks and Blair, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Department of Public Works, Bureau of Recreation, 595 City Hall. Low bidders: J. W. McHugh, 1617 Race street, Philadelphia, $14,600; Ralph Herzog, 10 South Eighteenth street, Philadelphia, $17,926. Plumbing and heating, L. J. Sommers & Son, 2436 Brown street, Philadelphia, $448. Electric, Whalen-Crosby Co., 140 North Eleventh street, Philadelphia, $450.

Tower of Light, Sesqui Grounds, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Sesqui-Centennial Association, 531 Chestnut street, Philadelphia. Low bidder, Michael Melody & Son, 1322 Race street, Philadelphia.

Schools (3), Eleventh and Venango, Fifty-seventh and Spruce, Thirteenth and Jackson streets. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Carpentry and mill work, plastering, painting and glazing, caulking, hardware, metal lath, marble work, ornamental iron work. Low bidders: Eleventh and Venango School—Haverstick & Borthwick, Schaff Building, Philadelphia, $7,685; Carr & Courtney, 3025 Poplar street, Philadelphia, $7,770; plumbing, Bulman Brothers, Fifth and Cumberland streets, $4,968. Fifty-seventh and Spruce streets, E. C. Durrell, 1713 North Twenty-fourth street, $3,587; Knox Landers, 1132 Vine street, Philadelphia, $3,693; plumbing, Philadelphia Piping Co., 1605 Rockland street, Philadelphia, $4,992. Thirteenth and Jackson Streets—William Langhorne, 10 South Eighteenth street, $12,638 E. C. Durell, 1713 North Twenty-fourth street, Philadelphia, $14,193; plumbing, Bulman Brothers, Fifth and Cumberland streets, $5,546.

Bridge Equipment, Philadelphia. Owners, Pennsylvania Railroad, Montgomery Smith, Purchasing Agent, Northwest Corner Seventeenth and Filbert streets. Owners taking bids due May 21st before noon (Standard Time).

Residences (34), Roosevelt Boulevard and Bridge street; Rosalie, Large and Horrocks streets, Philadelphia, $170,400. Owner, George Edell, Hillcrest and Stenton avenues, Philadelphia. Brick, 2 stories, various sizes, slag

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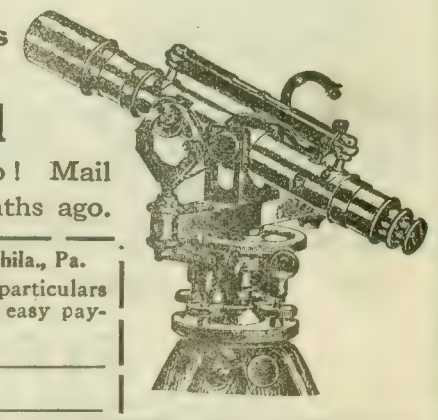
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Building, Delaware avenue and Bigler street, Philadelphia. Architects and engineers, John N. Gill Const. Co., 121 North Broad street, Philadelphia. Owners, Bisbee Linseed Co., Drexel Building, Philadelphia. Reinforced concrete, 5 stories, 100x150 feet (electrical work, heating and sprinkler system reserved). Contract awarded without competition to John N. Gill Const. Co., 121 North Broad street, Philadelphia.

Mill Building, M street, South of Torresdale avenue, Philadelphia, $37,000. Architect, private plans. Owners, Artcraft Silk Hosiery Mills Co., on premises. Brick, steel, 1 story and basement, 96x160 feet, slag roof, cement floors, steam heat, electric light, tile, marble and terrazzo work, steel sash and skylights, rolled steel doors, kalamein doors, elevators, plumbing, metal partitions, area gratings. Contract awarded to William Steele & Sons Co., 219 North Broad street, Philadelphia.

Alterations to Building, Southeast Corner Thirteenth and Chancellor streets, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owner, Jules Junker, 211 South Thirteenth street, Philadelphia. Lessees, Davis & Nahikian, 201 South Thirteenth street, Philadelphia. Demolition, carpentry and mill work, steel and iron work, concrete, granite, plastering, painting and glazing, terra cotta, metal lath, tile and marble work, kalamein doors. Contract awarded Jacob Myers Sons Co., 5100 Lancaster avenue, Philadelphia.

Home for Aged (alts. and add.), 5431 Greene street, Philadelphia. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, The Pennsbury, on premises. Brick, steel, 3 stories rear add., slag and slate roof, pine floors. Contract awarded to William J. Gruhler Co., 219 East High street, Philadelphia.

Warehouse, Clearfield and Ruth streets, Philadelphia. Architect, private plans. Owners, Booth Bottling Co., on premises. Brick, 1 story, 115x50 feet, slag roof, cement floors, rolled steel sash. Contract awarded Murphy-Quigley Co., 1518 Sansom street, Philadelphia.

Exposition Building, Sesqui-Centennial Grounds, Philadelphia. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owners, Persia Government, care of Persian Society of New York, care of architect. Metal lath, stucco. Contract awarded Lithgow Co., 79 King street, New York City.

Office (alts.), Commercial Trust Building, Fifteenth and Market streets, Philadelphia. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Cassatt & Co., on premises. Rubber floors, carpentry and mill work, demolition, metal lath, hollow tile, cabinet work, steel sash, oak floors, painting and glazing, marble work, electric work, plumbing, hardware, alterations to heating system. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia.

Residences (26), Lycoming, M, Markland and Maywood streets, Philadelphia, $106,000. Architect, private plans. Owners, Smith & Vollmer, Twenty-third and Passyunk avenue, Philadelphia. Brick, 2 stories, (4) 16x38 feet, (22) 15x29 feet, 11x8 feet, slag roof, hardwood and pine floors, electric light. Contract awarded to Webb Brothers, 6128 Catharine street, Philadelphia.

Garage, 247-49 South Sixth street, Philadelphia, $40,000. Architect, private plans. Owner, Joseph Dintenfass, 415 Pine street, Philadelphia. Brick, 2 stories, 43x181 feet, slag roof, cement floors, electric work. Contract awarded to Jack Trichonsky, 4842 Walnut street, Philadelphia.

Store and Storage (add.), Northwest Corner Tenth and Poplar streets, $6,000. Architect, private plans. Owner, B. Globman, 840 North Eighth street, Philadelphia. Brick, 3 stories add., 12x9 feet, slag roof, electric work. Contract awarded to M. Sandberg, 2622 South Ninth street, Philadelphia.

Residence, Eant side Ferndale street, South of Stanwood street, $4,000. Architect, private plans. Owner, Walker Kirnot, Tabor road, Olney, Philadelptia. Frame, 2 stories, 26x34 feee, shingle roof, pine floors, hot water heat, elecric light. Contract awarded to William B. Gayde, 131 Old Soldier road, Cheltenham, Pa.

Coast Guard Building, Broad and Pattison avenue, Philadelphia, $34,500. Architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, United States Government, Sesqui Grounds, 531 Chestnut street, Philadelphia. Metal lath and stucco, 2 stories, 62x94 feet, slag roof, pine floors. Contract awarded to Haverstick & Borthwick, Schaff Building, Philadelphia.

Store and Storage (add. and alts.), 2501-03 West Lehigh avenue, $7,000. Architect, private plans. Owner, Charles Schiller, 2501 West Lehigh avenue, Philadelphia. Brick, 1 story add., 24x24 feet, general alterations. Contract awarded to Paul Brosz, 2517 West Huntingdon street, Philadelphia.

Residence, Northeast Corner Eighty-fourth and Brunswick avenue, Philadelphia, $7,000. Architect, private plans. Owner, Philip Sil-

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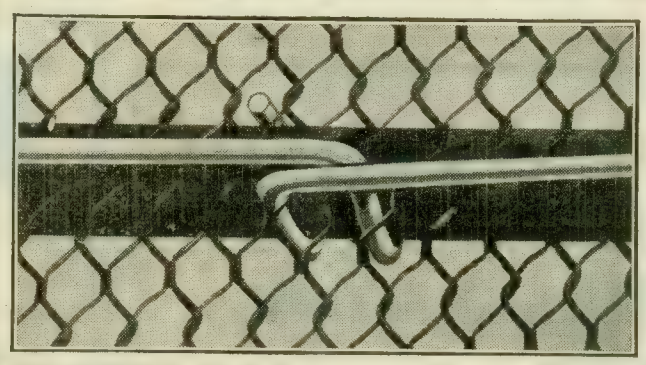
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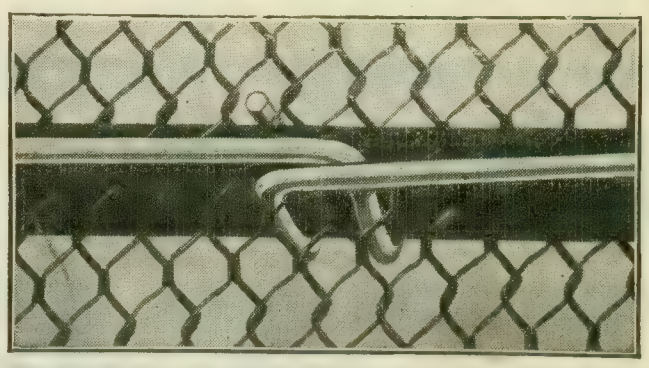
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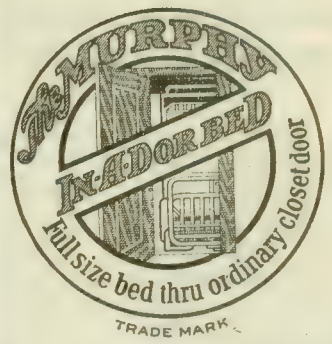
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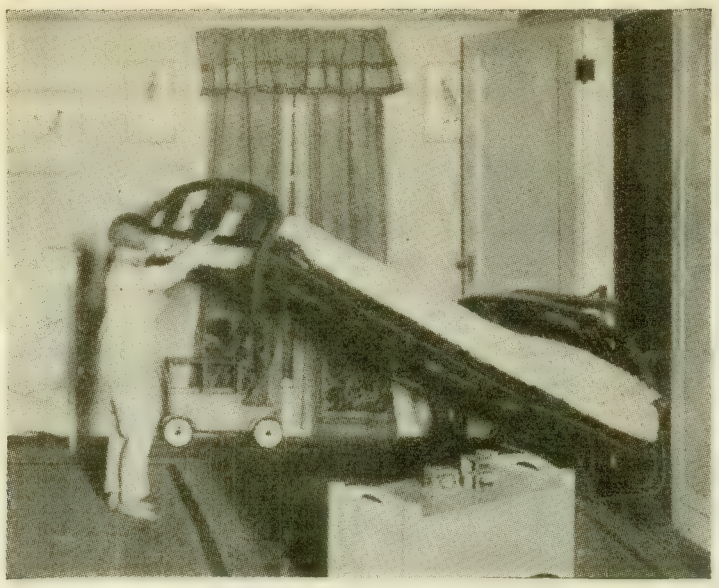
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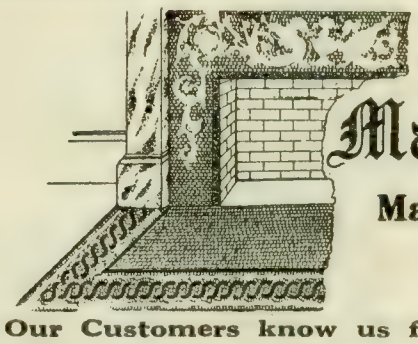
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verstein, on premises. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to I. Kaplan, 7904 Eastwick avenue, Philadelphia.

Amusement Buildings, Southwest Corner Broad and Oregon avenue, $15,000. Owners, Sesqui-Centennial Concessions, North American Building, Philadelphia. Frame, 1 story, 70x94 feet and 200x280 feet. Contract awarded to John Schenkman, Atlantic City, N. J.

Boiler House, 726-28 South Swanson street, Philadelphia, $4,000. Architect, private plans. Owners, Loos & Dilworth, 134 South Front street, Philadelphia. Brick, 1 story, 20x21 feet. Contract awarded to E. E. Hollenback, 1804 Brandywine street.

Residence and Store (add. and alts.), 618 South Fifty-second street, $4,000. Architect, private plans. Owner, Nathan Prusan, on premises. Brick, 2 stories add., 13x11 feet, general alterations. Contract awarded to J. D. Fisher, 5426 Thompson street, Philadelphia.

Factory (add.), 3632-38 West Gordon street, Philadelphia, $3,970. Architect, private plans. Owners, The Middler-Hunter Co., on premises. Brick, 2 stories add., 16x62 feet. Contract awarded to Negro Brothers, 2130 West Cambria street, Philadelphia.

Residence and Store (add.), 1523 Columbia avenue, Philadelphia, $5,000. Architect, private plans. Owner, H. Goldman, on premises. Brick, 1 story, 12x18 feet, slag roof, pine floors, electric work. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Laundry (add.), 5636 Arch street, Philadelphia, $2,750. Architect, private plans. Owner, Joshua Thompson, 121 North Fifty-fifth street, Philadelphia. Brick, 1 story add., 16x22 feet, slag roof, electric light. Contract awarded to Samuel D. Brown, 919 South Seventeenth street, Philadelphia.

Warehouse, Southeast Corner Twelfth and Kimball streets, Philadelphia, $32,000. Architect, private plans. Owners, American Cigar Co., Twelfth and Washington avenue, Philadelphia. Brick, 1 story, 39x100 feet, slag roof, electric light, metal lath. Contract awarded to A. Raymond Raff Co., 1635 Thompson street.

Store and Office, Southeast Corner Frankford avenue and Bridge street, $30,000. Architect, private plans. Owners, Keystone State Building Co., 213 South Fifteenth street, Philadelphia. Brick, 2 stories, 73x54 feet, slag roof, pine floors, electric light, steam heat. Contract awarded to S. H. Levin, Elrae Building, Philadelphia.

Store and Residence (add. and alts.), Northeast Corner Pechin street and Roxborough avenue, Philadelphia, $2,225. Architect, private plans. Owner, Dr. Woodruff, on premises. Brick, 1 stor yadd., 18x13 feet, general alterations. Contract awarded to Walter F. Kinney, 4354 Mitchell street, Philadelphia.

Store and Residence (alts.), Northwest Corner Eleventh and Ellsworth streets, $2,200. Architect, private plans. Owner, William Adler, on premises. General alterations. Contract awarded to Solomon Singer, 615 West Moyamensing avenue.

Residence (add.), 4406 Locust street, Philadelphia, $2,000. Architect, private plans. Owner, Walter Frambus, on premises. Brick, 1 story, 18x20 feet, slag roof, pine floors, electric work. Contract awarded to S. C. Sarson, 5228 Race street, Philadelphia.

Laundry, 1921 Point Breeze avenue, Philadelphia, $15,000. Architect, private plans. Owner, Fvare Convoni, 1848 Passyunk avenue, Philadelphia. Brick, 2 stories, irregular size, slag roof, pine and cement floors, steam heat, electric light. Contract awarded to P. Di Domencio, 1912 Jackson street, Philadelphia.

Garage, North side McKean street, West of Bonsall street, Philadelphia, $7,000. Architect, private plans. Owner, Fvare Convoni, 1848 Passyunk avenue, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors. Contract awarded to P. Di Domencio, 1912 Jackson street, Philadelphia.

Store and Residence (alts.), Northeast Corner Broad and Ellsworth streets. Architect, private plans. Owner, Mrs. Watson, on premises. General alterations. Contract awarded to Belinski Brothers, 5423 Upland Way, Philadelphia.

Storage (alts.), 1227 North Front street, Philadelphia, $2,785. Architect, private plans. Owners, Babcock & Wilcox, 1120 Packard Building, Philadelphia. General alterations. Contract awarded to Albert Doak, 2138 Arch street, Philadelphia.

Sewer Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Contracts awarded: Bensalem avenue, Strahle to Lexington avenue, Philadelphia, J. Joseph McHugh, 1617 Race street, Philadelphia, $13,061.84. Almond street, Orthodox to Juniata, A. Matteo, Philadelphia, $20,808.89. Bingham street, Golfrey to Comly street, A. Di Sandro & Son, 3906 North Fifth street, $51,666.50. Edgemont street, Eddington to Alresford street, Joseph Moss, 1652 Wakeling street, Philadelphia, $1,246.42. Elmwood avenue, Fifty-sixth to Fifty-seventh street, Higgins & Reilly, Real Estate Trust Building, Philadelphia, $36,096.95. Forty-ninth street, Chester Branch, Philadelphia & Reading, to Schuylkill River, J. J. McHugh, 1617 Race street, Philadelphia, $44,070.98. Glenlock street, Robbins to Levick street, A. Pinchotti, Philadelphia, $5,257.40. Homer street, Cornelius to Rodney street, J. Joseph McHugh, 1617 Race street, Philadelphia, $10,304.50. Jackson street, Robbins to Levick street, A. Pischotti, Philadelphia ,$5,340.52. Large, Roosevelt Boulevard to Devereaux street, A. Perna & Son, 752 South Tenth street, $10,478. Marsden street, Levick to Hellerman, A. Pischotti, Philadelphia, $6,209.40. N street, Hunting Park avenue to Bristol, Perna Engr. & Cont. Co., 752 South Tenth street, $18,158.75. Phil-Ellena street, Cheltenham avenue to Pickering, A. Frunzi, 513 High street, Philadelphia, $13,278. Seventy-eighth street, North Ogontz avenue, to Limekiln Pike, F. T. Buckius, Kensington and Deal streets, Philadelphia, $16,968. Tyson, Walker to Frankford avenue, John Hastie, 601 East Hilton street, Philadelphia, $19,401.40. Aramingo avenue, Frankford Creek to Roxborough street, J. J. McHugh, 1617 Race street, Philadelphia, $27,872. Eighth street, Chelten avenue to Sixty-sixth street, Peter and A. J. Ellis, Fourth and Wyoming avenue, $46,522. Gillespie street, Robbins to Levick, O'Neill, 127 East Mermaid lane, $141,599. Mansfield avenue, Haines to Washington lane, O'Neill Co., 127 East Cermaid lane, Philadelphia, $159,661.13.

Miscellaneous Paving, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Contracts awarded: Benner street, Castor avenue to Roosevelt Boulevard, Morrisey Brothers, 4345 North Seventh street, Philadelphia, $1,590.35. Anderson street and others, McCarrick Brothers, 3240 Fox street, Philadelphia, $3,450.30. Aubrey street and others, Curtis Brothers, State road, Philadelphia, $22,199.40. Edna street and others, Morrisey Brothers, 4345 North Seventh street, Philadelphia, $36,741.95. K street, Sedgley avenue to Hunting Park avenue, Elwood Garlick, 2948 East Venango street, Philadelphia, $2 ,126.40. Kennedy street and Tulip street, J. Joseph McHugh, 1617 Race street, Philadelphia, $1,478.96. Tulpehocken street, Woolston to Thouron, Frank Mark Cont. Co., 2820 North Twenty-first street, Philadelphia, $4,307. Glen Echo road, McCallum to Emlen street, McCarrick Brothers, 3240 Fox street, Philadelphia, $20,613.20. Apple street, Jamestown to Wendover, Barber Asphalt Co., 1600 Arch street, Philadelphia, $2,290.83. Chelwynde avenue and others, Barber Asphalt Co., 1600 Arch street, Philadelphia, $18,161.63. Merrick street, Shurs Lane to 225 feet northwest, Eastern Asphalt Co., Pennsylvania Building, $2,992.60. Pacific street, Richmond to Allen, Barber Asphalt Co., 1600 Arch street, $6,756.94. Sharp street, Salaignac to Haines street, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $3,291.65. Sprague street, Mt. Airy avenue to Gowen, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $15,274.06. Forty-sixth street, Market to Haverford avenue, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $39,231.20. Ardleigh street, Mt. Airy avenue to Gowen, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $16,842. Coleman street, Fifty-eighth to Fifty-ninth street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $12,422. Middleton street and Woolstron street, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $20,116.50. Queen street, Baynton to Rubicam street, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $5,668.95.

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Smedley, Sixty-sixth street, Sixty-seventh avenue, Barber Asphalt Co., 1600 Arch street, Philadelphia, $5,946.22. Woodcrest avenue, Sixty-sixth and Morris Park line, Barber Asphalt Co., 1600 Arch street, Philadelphia, $2,200.93.

Building (repairs), Southwest corner 12th and Sansom streets, Philadelphia, $18,790. Architect, private plans. Owners, Charles L. Brown and Company, Flanders Building, Philadelphia. General fire repairs. Contract awarded to Jas. A. Fitzgerald and Son, 1623 Snyder Avenue.

Store and Residence, 806 South street, Philadelphia, $12,000. Architect, private plans. Owner, Samuel Perlstein, 832 South street, Philadelphia. Brick, 3 stories, 15x37 feet, 11x15 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Chas. Schnitzer, 4502 York Road, Philadelphia.

Sesqui Gladway Building, southwest cor. Broad and Pattison Avenue. Architect, private plans. Owner, Charles N. Pappas, 212 S. Fifty-third Street, Philadelphia. Metal lath and stucco, one story, 40x50 feet. Contract awarded to Geo. W. Crosley, 1328 Foulkrod street, Philadelphia.

Store and Storage (alts.), 258-60 North Broad street, Philadelphia, $2,000. Architect, private plans. Owner, General Realty Co., 260 N. Broad Street, Philadelphia. General alterations. Contract awarded to E. H. Keefer & Son, 1321 Rodman street.

Church (add.), 331 Reed street, Philadelphia, $2,000. Architect, private plans. Owner, care of Rev. K. Zukansbar, 331 Reed St., Philadelphia Brick, 1 story addition, 11x13½ feet. Contract awarded to Simon Willis, 1103 South Third street, Philadelphia.

Pennsylvania Construction News

Power House, Abington High School, Abington, Pa. Architect, Heacock and Hokanson, 1211 Chestnut street, Philadelphia. Owner, Abington School Board, C. M. Doll, Secretary, Glendside, Pa. Stone, steel, 1 story and basement. Ready for bids due May 24th 7 P. M. (S. T.)

Residence, Quarry Lane, Haverford, Pa., $50,000. Architect, Walter K. Durham, 312 South Broad street, Philadelphia. Owners, Durham & Irvine, 312 South Broad street, Philadelphia. Stone, 2½ stories. Plans in progress. Work contemplated in one year.

Residence and Garage, Norristown, Pa. Architect, Mantle Fielding, 520 Walnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories. Plans in progress. Too early for details.

Auto Show Room and Apartment Building, Erdenheim, Pa. Architect, G. Harold Murphy, 4308 North Broad street, Philadelphia. Owner, Mr. Laboe, care of architect. Brick, 2 stories, 40x75 feet, slag roof, hardwood and cement floors, electric light. Plans in progress.

Office Building, Willow Grove, Pa. Architect, T. Frank Miller, 1012 Walnut street, Philadelphia. Owner, W. L. Kentner, Willow Grove, Pa. Brick, 3 stories, 47x50 feet, slag roof, pine floors, electric light. Plans in progress.

Bank Building, Collingdale, Pa. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Collingdale Trust Co., C. Russell Arnold, president, Lansdowne, Pa. Architect selected. Plans in progress. Too early for details.

City Hall, site not determined, Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owners, City of Reading, care of Mayor Sharman, City Hall, Reading. Architects selected. Too early for details.

Residence, Mount Penn, Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, Paul Ancona, 625½ Penn street, Reading, Pa. Brick, 2½ stories, irregular size, shingle roof, hardwood floors, electric light, tile work. Plans in progress.

Residence, Ashwood road, Villa Nova, Pa. Owner, Warren Graham, Fox Building, Philadelphia. Work contemplated in five years.

Single Residences and Garages (100), Merwood Park, South Ardmore, Pa. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Ofner, Stephan Schifter, South Ardmore, Pa. Frame, stucco, 2½ stories, 31x33 feet, garage 10x18 feet, hot water heat, electric light, tile work, shingle roof, hardwood and cement floors. Plans in progress.

Church, Wallingford, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Presbyterian Church of Wallingford, Rev. E. Riley, Wallingford. Stone, 1 story. Sketches drawn. Work contemplated.

Church (restoration), Shenandoah, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Assumption Roman Catholic Church, Rev. Harry McFalls, Shenandoah, Pa. Frame, 1 story. Preliminary plans in progress.

Residences (11), Manoa, Pa. Architect, private plans. Owners, Fisher & Miller, 5136 Walnut street, Philadelphia. Frame and stucco, 2½ stories, 16x40 feet, shingle roof, oak and pine floors, hot water heat, electric light, metal lath, tile work. Work contemplated. Ready for bids in a few months.

Central State Normal School (add. and alts.), Lock Haven, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, State Normal School, Lock Haven, Pa. Architects selected. Too early for details.

Bank, Saltsburg, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, First National Bank of Saltsburg, H. F. Carson, president, Saltsburg, Pa. Limestone, marble, 1 story, 40x60 feet, tile and marble, bronze work, vault, ornamental iron work. Too early for details.

Residence, Harrisburg, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owner, Miss Margaret Moss, care of architects. Brick. Plans in progress.

Store (add. and alts.), Second and Lloyd streets, Chester, Pa. Architect, F. C. Watson, Crozer Building, Chester, Pa. Owner, name withheld. Brick, 2 stories, 18x75 feet, slag roof, pine floors, hot water heat, electric light. Plans in progress.

Church (add. and alts.), Second and Boher streets, Chester, Pa. Architect, F. C. Watson, Crozer Building, Chester, Pa. Owners, Calvary Baptist Church, Rev. R. C. Moore, Chester, Pa. Brick, 2 stories, 40x100 feet, electric light, general interior alterations. Plans in progress.

Church, Lynnwood, Pa. Architect, F. C. Watson, Crozer Building, Chester, Pa. Owners, Mt. Hebron A. M. E. Church, Rev. J. C. Davids, Lynnwood, Pa. Hollow concrete block, 1 story and basement, 40x75 feet, slag roof, pine floors, steam heat, electric light. Plans in progress.

Residences (2), Laurel lane and Rose lane, Haverford, Pa. Architect, Walter K. Durham, 312 South Broad street, Philadelphia. Owners, Durham & Irvine, 312 South Broad street, Philadelphia. Stone, clapboard, 2½ stories, 25x85 feet, vapor heat, electric light, shingle roof, hardwood floors, tile and marble work. Owners will build.

Residence and Garage, Bryn Mawr, Pa. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 25x40 feet, hardwood floors, hot water heat, electric light, tile work. Plans about completed. Ready for bids in one week.

Residence and Garage, Ardmore, Pa. Architect, J. Ethan Fieldstein, Otis Building,

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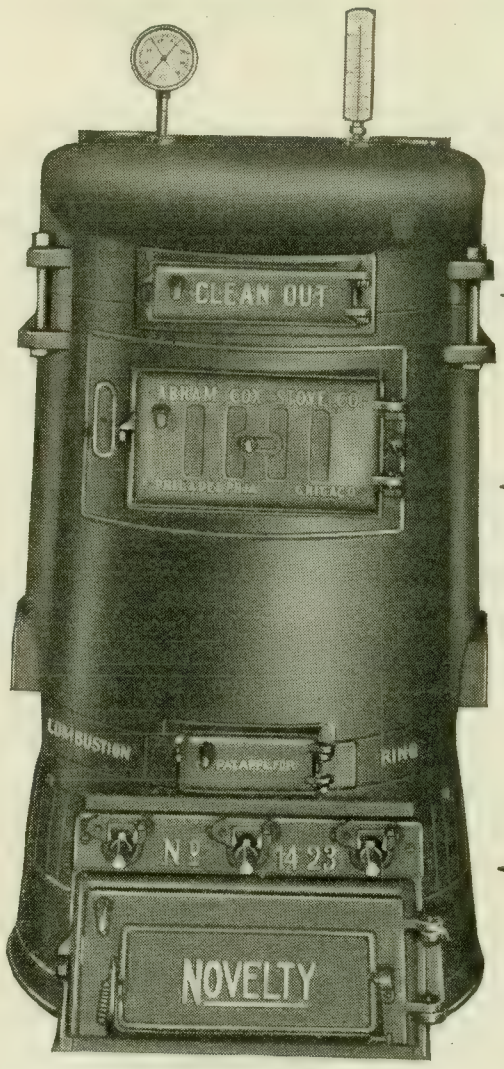
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A deep firepot allows for deeper fuel bed and enables you to carry fire throughout the day or over night.

2.

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4.

Waterways on the outside of the boiler instead of inside the firepot permits the grate and the firepot to be full size, thus increasing the coal carrying capacity of the boiler.

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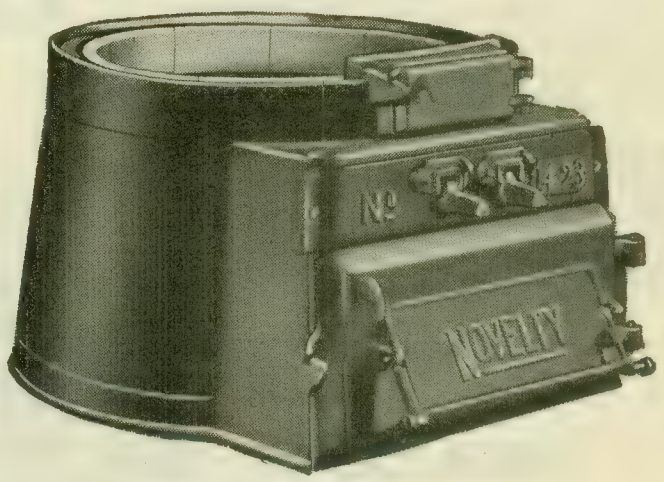


Illustration of Combustion Ring

Philadelphia. Owner, name withheld. Brick, 2½ stories, 30x40 feet, hot water heat, electric light, tile work, hardwood floors. Plans about completed. Ready for bids in one week.

Residence Development (single and twin houses), City Line and Haverford avenue, Overbrook Hills, Merion, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, McWilliams & Meloney, on site. Stone, brick, frame, 2½ stories, 17 types, shingle roof, hardwood floors, central heat, electric light, tile and marble work. Owners taking sub-bids due at once.

High School, Northampton, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Northampton School Board, Northampton, Pa. Brick, steel, 2 stories, 115x200 feet, composition roof, composition and hardwood floors, safety treads, metal lath, steel sash, skylights, iron stairs (heating, electric and plumbing separate). Owners will be ready for bids in two weeks.

Printing Plant, Bradford, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Barnsdall Printing Co., Bradford, Pa. Steel, brick, concrete, 3 stories, 100x50 feet, Barrett roof, hollow tile partitions, roof ventilators, waterproofing, cast stone, iron stairs, kalamein doors, tile and marble (heating, plumbing and electric separate). Architects ready for bids.

School and Chapel, Steelton, Pa. Architects, Johnson & Starr, Spooner Building, Harrisburg, Pa. Owners, St. James' Roman Catholic Church, Rev. J. C. Thompson, Steelton, Pa. Brick, 2 stories, slate roof, composition and pine floors, vapor heat (heating, plumbing and electric reserved). Architects will be ready for bids in two weeks.

Residences (14), Meeting House road, Ogontz Hills, Pa. Architect, private plans. Owner, Aaron Traub, 6241 North Broad street, Philadelphia (Oak Lane 2353). Brick, 2 stories. Work contemplated. Plans in progress.

Glenside School, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Board of Education, Glenside, Berks County, Pa. General construction (heating, plumbing and electric work separate). Owners taking bids due May 20th.

Dining Hall, Eagleville, Montgomery County, Pa., $90,000. Architects, Simon & Simon, 249 S. Juniper St., Phila. Owner, Eagleville Sanatorium for Consumptives, Eagleville, Pa. Stone, brick, cut stone, steel, 1 story and basement, 91x73 feet, variegated slate roof, cement, composition and linoleum floors, hollow tile, elevators, plumbing, painting and glazing, Anti-Hydro waterproofing, dampproofing, ornamental iron, iron stairs, bond, metal lath, steam heat, electric light, brass thresholds, demolition, incinerator, kitchen equipment, refrigeration, bluestone, area gratings, wrought iron pipe. Architects taking bids due May 14th at noon.

Residence, Glenolden, Pa. Architect, F. C. Watson, Crozer Building, Chester, Pa. Owner, J. B. Gallager, Glenolden, Pa. Brick, 2½ stories, 24x38 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids.

Building (alts.), Bristol, Pa. Architect, Arnold A. Angell, 3628 Lincoln avenue, Chicago, Ill. Owners, Lucius Beebe & Sons, 129 South street, Boston, Mass. Reinforced concrete, structural steel, carpentry and mill work, slag roof, brick. Owners taking bids due May 14th.

Paving and Grading, Chester, Pa. Owners, City Council, G. J. Hunter, Chester, Pa. Deposit $2.00 on each refunded. Certified check (paving), $1,000; (grading), $100. Owners taking bids due May 11th, 2 P. M. (Standard Time). Copy of newspaper advertisement must accompany bid. Bond, 50 per cent. of contract price.

Manufacturing Building, York, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, Manufacturers' Association of York, R. Gephart, 15 West Market street, York, Pa. Fireproof, 3 stories, 55x66 feet, tile roof, hardwood floors, hollow tile, elevators, safety treads, steam heat, electric light, metal lath, tile, marble and terrazzo work, iron stairs, ornamental iron. Architect taking bids due May 20th.

Elks' Home, Shenandoah, Pa. Architect, William Douden, 501 Seventh street, N. W., Washington, D. C. Owners, B. P. O. E., No. 945, A. W. Mane, Shenandoah, Pa. Brick, 4 stories, 30x122 feet, slag roof, electric lighting, steam heating. Owners taking bids due May 15th.

Houstonville School (add.), South Coatesville, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, South Coatesville School Board, care of architect. Brick, steel, 3 stories, 60x80 feet and 50x60 feet, slate roof, maple floors, safety treads, roof ventilators, iron stairs, rolled steel sash, metal lath (heating, plumbing and electric work separate bids). Will be ready for bids next week.

Residence (alts.), Royersford, Pa. Architect, J. Vincent Boley, 162 Second Avenue, Royersford, Pa. Owner, Dr. Henry Graber, Walnut Street and Fifth Avenue, Royersford, Pa. Frame, 1 story, tin roof, oak and tile floors, screens, plate glass, tile work wood, sash, (heating, plumbing and lighting reserved.) Plans in progress. Owner will take bids.

Silk Mill, Hanover, Pa. 75,000. Architect, Fred W. Wentworth, 140 Market street, Paterson, N. J. Owners, Brilliant Silk Mfg, Co., J. B. Whitney, Pres., 387 Fourth Avenue, New York City. Brick, 1 story, 65x123 feet. Will take bids in about one month.

Road Work, Pennsylvania. Owners, Penna. Dept. of Highways, Harrisburgh, Pa. Owners taking bids due May 20th at 10 A. M.

Adams and Cumberland Counties, R-41, A-3253, Huntingdon, Menallen and Tyrone Townships, Adams County, Dickinson, S. Middleton Townships, Cumberland County. 52-751 feet. One course reinforced concrete. Certified check, $4,000.

Butler County, R-75, A-4040, Eau, Claire and Cherry Valley Boroughs, Venango Township. 15,000 feet. One course reinforced concrete. Certified check $2500.

Clarion County, R-214, Sec. 1, Piney and Tobey Townships, 15,600 feet. One course reinforced concrete. Certified check $2500.

Indiana County, R-337, A-3700, 3915, Brush Valley and E. Wheatfield Townships, Armagh Borough, 21,872 feet. One course reinforced concrete. Certified check $4,000.

Lehigh and Berks County, R-226, 285, A-3795, 3796, 4197, Lynn and Albany Townships, 32,736. One course reinforced concrete. Certified check $3500.

Northampton County, A-2842-2588, Upper Mt. Bethel and Washington Townships, 22,-650 feet. One course reinforced concrete. Certified check $3500.

Somerset County, A-3528, Wellersburg Borough, 8055 feet. One course reinforced concrete. Certified check $2000.

Westmoreland County, A-4009, Rostraver Township, 8203 feet. One course reinforced concrete. eCrtified check $2000.

York County, A-2003-A, Jefferson Borough, Codorus Township, 16,253 feet. One course reinforced concrete. Certified check $2500.

Road Work, Pennsylvania. Owners, Penna. Dept. of Highways, Harrisburg, Pa. Low bidders on work received May 6th.

Blair County, R-260, 537, Catherine and Frankstown Townships. One course reinforced concrete. Miller Const. Co., Punxsutawney, Pa., $199,051.85.

Dauphin County, A-3856, West Hanover Township. One course reinforced concrete. York Eng. & Const. Co., York, Pa., $97,893.35.

Allegheny Co., A-3754-5, Sewickley and Franklin Townships. One course reinforced concrete . D. W. Challis & Sons, Inc., Sewickley, Pa., $133,762.

Jefferson County, A-435-6, A-3386, Bell Township, 8027 feet. One course reinforced concrete. Jos. Wiesner & Sons, St. Mary's, Pa., $62,011.82.

Mercer County, R-80, A-3934, A-4001, Mercer Borough, E. Lackawannock Township. One course reinforced concrete. Jos. McCarty Const. Co., Kaukauna, Wis., $69,672.77.

Susquehanna County, R-12, A-4001, Dimock Township, 13,200 feet. One course reinforced

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concrete. Earl V. Chappell, Binghamton, N. Y., $96,924.46.

Westmoreland County, A-3567, 3984, North Huntingdon Township, Manor Borough. One course reinforced concrete. Cooper Const. Co., Clymer, Pa., $137,905.74.

Mercer County, A-3935, South Pymatuning Township, 15,385 feet. One course reinforced concrete. amieson & Knapp, Fredonia, Pa., $87,498.68.

Tioga County, R-106, A-3964, Wellsboro Borough. One course reinforced concrete. D. L. Dennis & Co., Galeton, Pa., $28,781.11.

Low bidders on work received May 7th.

Beaver County, R-115, A-3797, A-3624, Hopewell & Raccoon Townships. One course reinforced concrete. R. L. Bonham Co., Inc., Bridgeton, N. J., $351,907.99.

Bucks County, Applicant 3441, 3670, Bristol Township and Borough, 8243 feet. One course reinforced concrete. R. L. Bonham Co., Bridgeton, N. J., $87,487.47.

Allegheny Co., R-70, S-3, O'Hara Township, Aspinwall Borough. One course reinforced concrete. John F. Casey Co., Pittsburgh, Pa. $137,860.80.

Mercer Co., R-213, A-3936-4100. One course reinforced concrete. Jamiseon & Knapp Co., Fredonia, Pa., $133.476.67.

Luzerne Co., A-3770, Sugarloaf Township. Broken stone base course. D. S. Rietz Const. Co., Sunbury, Pa., $122,111.20.

Susquehanna Co., R-174, Sec. 1, Clifford & Lenox Townships. One course reinforced concrete. W. D. Fote, Olean, N. Y. $297,405.-92.

Berks Co., A-3842, Sec. 1, Muhlemberg, Alsace and Ruscomb Manor Townships. One course reinforced concrete. Leonard Paving Co., 233 Broadway, New York, $235,460.29.

Beaver Co., R-278, A-3831, Brighton and Borough Townships. One course reinforced concrete. F. F. Hallam & Son, Fairmount, W. Va., $158,032.43.

Somerset Co., R-50, A-3680, Addison Townships. One course reinforced concrete. Tri-State Eng. Co., Cumberland, Mo., $160,087.70.

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Pennsylvania Contracts Awarded

Moose Temple, Bradford, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Loyal Order of Moose, E. M. Bitner, Bradford, Pa. Brick, stone, steel, 3 stories, 73x85 feet, quarry tile and Carey roof, maple, pine and oak floors, hollow tile, rubber tile, safety treads, roof ventilators, waterproofing, steam heat, electric light, tile and marble work, metal lath, skylights, kalamein doors, iron stairs, ornamental iron work. Contract awarded to Hyde-Murphy, Ridgway, Pa. Heating to T. J. & C. J. Johnston, Bradford, Pa. Plumbing to F. C. Patterson Co., Bradford, Pa.

Residence, Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, R. J. Reinhard, care of architect. Concrete block, hollow tile, stucco, 2½ stories and basement, 27x36 feet, 18x20 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work. Contract awarded E. D. Lever, Abington, Pa.

School, Littlestown, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, St. Aloysius' Roman Catholic Church, Rev. E. O. Flynn, Littlestown, Pa. Brick, steel, 2 stories, 70x120 feet, built-up roof, maple floors, hollow tile, iron stairs, metal lath (heating, plumbing and electric work reserved). Contract awarded to Eline Brothers, Littlestown, Pa., $29,000.

Garage (alts.), Bryn Mawr, Pa. Architect, private plans. Owner, Mr. Walter C. Janney, Bryn Mawr, Pa. Plastering, painting, pine floors, matched slate roof, window screens, hardware. Contract awarded Metzger, Fisher & White, Otis Building, Philadelphia.

Bank and Office Building, Latrobe, Pa. Architects, Morgan, French & Co., 19 West Forty-fourth street, New York. Owners, People's National Bank, Latrobe, Pa. Brick, granite, limestone, steel, 2 stories and basement, 50x100 feet, cement and oak floors, asbestos built-up roof, roof ventilators, waterproofing and dampproofing, ornamental iron, steel skylights, hollow metal sash, steam heat, electric light, metal lath. Contract awarded to W. John Stevens, Inc., 1524 Chestnut street, Philadelphia, who are taking sub-bids.

Mt. Pleasant Press Buildings (alts. and add.), Harrisburg, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, J. Horace McFarland Co., Mulberry and Crescent Sts., Harrisburg, Pa. Brick, cut stone, reinforced concrete, steel, 4 stories ,100x102 feet. Contract awarded to Ray S. Shoemaker, Harrisburg, Pa.

Residence, No. 411 (alts.), St. Martin's, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owner, F. Strawbridge, St. Martin's, Pa. Hollow tile, stucco; 2½ stories, 10x15 feet, slate roof, oak and pine floors. Contract awarded to William J. Gruhler Co., 219 East High street, Philadelphia.

Residence and Garage, Wynnewood, Pa. Architect, Henry W. Rowe, 14 West Forty-fifth street, New York City. Owner, Joseph W. Gross, care of builders. Brick, stucco, stone, 2½ stories and basement, 49x30 feet, wing 23x19 feet, garage 41x25 feet, hot water heat, electric light, metal lath, tile work, Tudor stone slate roof, oak and pine floors, painting, glazing, plumbing, metal weather strip, ornamental iron work. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia.

Road Work, Pennsylvania. Owners, Department of Highways of Pennsylvania, Harrisburg, Pa.

Montgomery County, R-151, Cheltenham Township. One course reinforced concrete. Contract awarded to Fish-Rutherford Co., 2313 Walnut street, Philadelphia.

Berks County, R-382,310, A-3825-2981, Heidelberg, Marion and Tulpehocken Townships. One course reinforced concrete. $293,441.48. Contract awarded to Ambler-Davis Co., Harrison Building, Philadelphia.

Allegheny County, A-3581, Richmond Township. One course reinforced concrete. Contract awarded to A. G. Rothey, Elizabeth, Pa., $44,697.80.

York County, R-492, A-3543, West Manchester and North Codorus, New Salem and Seven Valleys Townships. One course reinforced concrete. $227,354.98. Contract awarded to W. Grant Raub, Red Lion, Pa.

Clarion County, R-214, A-3957-4082, Monroe and Piney Townships, 25,899 feet. One course reinforced concrete. $176,544.85. Contract awarded to M. C. Quick & Co., Brookville, Pa.

Susquehanna County, R-296, A-4000, Clifford and Herrick Townships, Uniondale Borough, 15,266 feet. One course reinforced concrete. $116,664.42. Contract awarded to Freeland Const. Co., Hazelton, Pa.

Dauphin County, R-129, Steelton Borough, 7,234 feet. One course reinforced concrete. $88,086.58. Contract awarded to Swanger Fackler Const. Co., Lebanon, Pa.

Mifflin County, R-33, Wayne Township, 11,466 feet. Grading and drainage. Contract awarded to Shamrock Const. Co., St. David's, Pa., $108,436.91.

Fayette County, A-366, A-3059-3662-S-3-4, Springfield Township, 23,800 feet. One course reinforced concrete. $216,688.44. Contract awarded to Payne-Yost Const. Co., Pittsburgh, Pa.

Susquehanna County, R-296, A-3651, Forest City Borough, 2,484 feet. One course reinforced concrete. $40,218.30. Contract awarded to John Booth, Carbondale, Pa.

Chester County, A-3001-3825, Sadsbury and Valley Townships. One course reinforced concrete. $143,350.24. Contract awarded to Geo. I. Thompson, Clearfield, Pa.

Berks County, A-3587, Heidelberg, North Heidelberg, Jefferson and Penn Townships, Robesonia and Bernville Boroughs, 32,713 feet. Grading and drainage. $76,787. Contract awarded to S. J. Groves & Sons Co., Duncannon, Pa.

Montour County, R-182,240, A-3765, Danville Borough, 3,640 feet. One course reinforced concrete. $34,589.20. Contract awarded to Reitz Brothers, Sunbury, Pa.

Franklin County, R-522, A-3744-3745, Guilford Township, 22,631 feet. One course reinforced concrete. $154,879.37. Contract awarded to Britti & Lozzie, Hagerstown, Md.

Tioga County, A-3995, Elkland Borough, 2,598 feet. One course reinforced concrete.

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SURETY BONDS

$21,613.45. Contract awarded to Montour Const. Co., Montoursville, Pa.

Westmoreland County, R-161, A-3729, South and East Huntingdon Townships. One course reinforced concrete. $194,407.85. Contract awarded to Georges Const. Co., Uniontown, Pa.

New Jersey Construction News

Residence, 3258 Lemuel Ave., Camden, N. J., $4,000. Architect, private plans. Owner, Wm. F. Todd, 952 North 33rd street, Camden, N. J. Frame, 2 stories, 16x33 feet, asphalt roof, hot water heat, electric light, pine floors. Permit granted.

Warehouse, Atlantic City, N. J. Architect, H. L. Stoudt, Atlantic City, N. J. Owner, Crane Company, Twenty-third street below Locust street, Philadelphia. Architect ready for bids.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, Secretary, Broad Street Bank Building, Trenton, N. J. Atlantic County, Route 3, Section 12A, Widening of Whitehorse Pike from Egg Harbor to Hammonton. Excavation, double line reinforced concrete pavement patching, gravel shoulder. Deposit of $10.00. Certified check 10%. Owners taking bids due May 24th at 11 A. M. (S. T.)

Concrete Paving, Audubon, N. J. Engineer, J. J. Albertson, Camden, N. J. Owner, Commissioners, Borough of Audubon, H. K. Lawrence, Audubon. Certified check. Work to be completed by Nov. 15th. Deposit $5. Owner taking bids due May 18th, 8.30 P. M. (D. S. T.)

Residences (2), 545-47 N. 32nd St., Camden, N. J., $8200 total. Architect, private plans. Owner, E. Christopherson, 603 N. 32nd St., Camden, N. J. Frame, 2 stories, 14 feet 10 inches x 45 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

School, Oaklyne, N. J. Architect, Frank R. Watson, 1211 Walnut street, Philadelphia. Owners, Board of Education, Oaklyne Township, William C. Linck, Oaklyne. Brick, 2 stories, 56x200 feet, slag roof, maple floors, steam heat, electric light. Plans in progress.

Residences (2), Collingswood, N. J. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, name withheld. Plans in progress. Too early for details.

Residence (alts.), Woodbury, N. J. Architects, H. Rex Stackhouse and W. W. Donohue, 266 South Fifteenth street, Philadelphia. Owner, name withheld. Two new bath rooms, tile or slate roof, hardwood floors, tile work, painting, carpentry. Plans in progress.

Galen Office Building, Southwest Corner Broadway and Stephens avenue, Camden, N. J. Architects, Edwards & Green, Camden, N. J. Owners, The Galen Building Co., Inc., care of architect. Brick, steel, limestone, terra cotta, 12 stories, 50x120 feet, asphalt roof, cement floors, elevator, steam heat, electric light, tile, marble and terrazzo work, hollow meeal sash, doors and skylights, fire tower, mail chutes. Plans in progress. Architects will be ready for bids in two weeks.

Comfort Station, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, Mr. Page, City Hall, Trenton, N. J. Brick, frame, 1 story, 20x40 feet, slate roof, tile floors, electric light, metal partitions. Owners ready for bids.

Sales Room and Office Building, New Brunswick, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Elwood E. Waller, New Brunswick, N. J. Brick, steel, 2 stories and basement, 67x166 feet, Johns Manville roof, concrete, maple and terrazzo floors, hollow tile, steam heat, electric light, metal lath, tile and marble, steel sash, fire doors, plate glass, bronze work, iron stairs. Architect ready for bids.

Stores (2), Apartments (4), Broadway and Pine streets, Westville, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owner, W. C. Firth, on premises. Stone and stucco, 3 stories, 38x60 feet, slag roof, pine floors, flush bulks, metal ceilings, tile work, hot water heat, electric light (bank fixtures separate bids). Owner taking bids due as soon as possible.

Hospital for Insane (add.), New Lisbon, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Board of Freeholders, Burlington County, N. J. Brick, 4 stories. Plans ready for contractors in architect's office. Bids due May 28th. Deposit, $25, refunded.

Fire House, Riverside, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Fire Company No. 1, Riverside, N. J. Brick, cut stone, 2 stories and basement, 117x40 feet, asphalt roof, reinforced concrete floors, vapor heat, electric light. Plans ready for bidders. Bids due May 24th.

Residences (10), 1602-24 Pershing street, Camden, $53,000. Architect, private plans. Owner, Bruno J. Wilinski, 1213 Mt. Ephraim avenue, Camden, N. J. Brick, 2 stories, (3) 16x54 feet, (6) 18x35 feet, (1) 20x54 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Building, 919-23 Liberty street, Camden, N. J., $10,000. Architect, Harold Allen, 526 Stevens street, Camden, N. J. Owner, Tony Prawdzik, 1213 South Tenth street, Camden, N. J. Brick and block, 1 story, 60x104 feet, slag roof, steam heat, electric light. Permit granted.

School, Labor Tract, Hamilton Township, N. J. Architect, W. A. KKleman, First National Bank Building, Trenton. Owners, Hamilton Township School Board, W. A. Robinson, District Clerk, Greenwood School, Trenton, N. J. Lowest bidders: J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J., $176,156; Wills-Bill Co., 1706 Sansom street, Philadelphia, $177,777. Electric, Randolph Elec. Co., Trenton, N. J., $9,000, $108, $80. Electric, Mercer Elec. Co., Trenton, N. J., $9,000, $400, $267. Heating, Piper Brothers, 340 North Broad street, Trenton, N. J., $17,420. Plumbing, Trenton Plumbing & Heating Co., 366 South Broad street, Trenton, N. J., $8,448.

Fire Headquarters Building, Shop and Water Towers, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, care of Commissioners, Trenton, N. J. Lowest bidders: J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J., $268,000. Electric, Randolph Electric Co., 14 North Stockton street, Trenton, $8,585. Plumbing, Piper Brothers, 340 North Broad street, Trenton, N. J., $13,000.

New Jersey Contracts Awarded

Bank, Main Street, Toms River, N. J. Architect, Leon Cubberley, 347 Madison Ave., New York City. Owner, Ocean County Trust Company, Toms River, N. J. Brick, granite, steel, 1 story, basement and mezzazine, 110x45 feet, slag roof, cement and cork floors, electric light, tile and marble work, metal lath, rolled steel sash, ornamental iron work, caen stone, ornamental plaster, shoring, water and dampproofing, bronze work, plumbing, composition floors. Contract awarded T. M. Gibbs Const. Co., 1510 Chestnut Street, Philadelphia.

Residence, 1679 Park Boulevard, Camden, N. J., $20,000. Architect, Ernest L. Ergood, 320 Market street, Camden, N. J. Owner, Aaron Heine, 546 Federal Street, Camden, N. J. Brick, 2½ stories, 34x39 feet, slate roof, hot water heat, electric work. Contract awarded to G. J. C. Ratcliffe, 1130 Haddon Ave., Camden.

Residences (2) Residence and Store (1), 1581-83-85 South Tenth Street, Camden, N. J., $15,000. Architect, A. B. Gill, 328 Market Street, Camden, N. J. Owner, Stanley Ambrosh, Camden, N. J. Brick, 2 stories, 15x52 feet and 14x52 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Anthony Kincher, 1527 Norris street, Camden, N. J.

Residences (2), 1263-65 Atlantic Avenue, Camden, N. J. $9,000. Architect, private plans. Owner, John Bubien, 1168 Mechanic Street, Camden, N. J. Brick, 2 stories, 14x48 feet, slag roof, pine floors, hot water heat, Contract awarded to Anthony Kincher, 1527 Norris street, Camden, N. J.

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BELL PHONE, CAMDEN 3210 KEYSTONE, CAMDEN 3147

Residences (7), 801-13 North Thirty-second street, Camden, N. J., $28,000. Architect, Harold A. Allen, 536 Stevens Street, Camden, N. J. Owner, Joseph S. Sullivan, 639 Royden street, Camden, N. J. Brick, 2 stories, 15x2 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to C. H. Simpson, Berlin, N. J.

Residences and Garages (4), 1158-60-64-66 Empire Avenue, Camden, N. J. Architects, Edwards and Green, Van Russ Building, Camden, N. J., $21,000. Owners, Parkside Realty and Development Company, Camden, N. J. Brick, 2 stories, 17x33 feet, slag roof, pine and cement floors, hot water heat, electric light, Garages, 1 story, 9x18 feet. Contract awarded to John D. Lawrence, Westville, N. J.

Miscellaneous Construction News

Church and School, Wilmington, Del. Architect, Hoffman Henon, Finance Building, Philadelphia. Owner, St. Thomas R. C. Church, Rev. Lynch, Wilmington, Del. Stone, brick, steel. Plans about completed. Architect ready for bids in one week.

Church, Lima, O. Architect, Charles W. Bolton & Sons, Schaff Building, Philadelphia. Owner, Calvary Reformed Church, Lima, O. Brick, stone, 1 story. Owner and Architect taking bids due May 17th.

Residence, Hagerstown, Md. Architect, H. E. Yessler, Schmidt Bldg., York, Pa. Owner, A. H. Gunnell, Hagerstown, Md. Brick, 2½ stories, 40x60 feet. slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Residence, Roland Park, Baltimore, Md. Architect, Frederick L. Ackerman, 25 West Forty-fourth street, New York City. Owner, Dr. Stewart Paton, care of Architect. Hollow tile, brick, limestone, cut stone, 3 stories and basement, 32x20 feet, 22x18 feet, 32x20 feet, irregular, textural slate roof, oak, pine and cement floors, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work, metal weatherstrip, waterproofing, (integral), bluestone, soapstone, area gratings, reinforced concrete, architect terra cotta, copper, magnesite, composition floors, linoleum floors, painting and glazing, brass pipe, plumbing, wrought iron pipe. Architect taking bids due May 13.

Miscellaneous Contracts Awarded

Armory and Arsenal Building, North Laurel, Del. Architect, E. C. May, DuPont Bldg., Wilmington, Del. Owners, State Armory Commission, E. M. Hoopes, North Laurel, Del. Brick, steel, 3 stories, 55x75 feet, 8 wings, 18x30 feet, slag, concrete and slate roof, linoleum floors, concrete and maple floors, safety treads, metal window guards, water and dampproofing, terra cotta, ornamental iron work, iron stairs, Bond, hollow metal doors, steel sash, terrazzo work, metal lath, (heating, plumbing and electric work, separate). Contract awarded to Wm. E. Booth & Son, Salisbury, Md. Plumbing and heating to W. E. Booth & Son, Salisbury, Md. Electric Wiring to G. W. McCaulley & Son, Wilmington, Del.

Garage, Pennsylvania Avenue and Union street, Wilmington, Del., $25,000. Architect, private plans. Owners, The White Co., 815 French Street, Wilmington, Del. Brick, steel, 1 story, 100x140 feet, composition roof, concrete floors, steam heat, electric light, steel sash. Contract awarded to B. H. B. Ennis, Jr., Baltimore, Md.

H. Rex Stackhouse and W. W. Donohoe, Architects, formerly 1120 Locust street, Philadelphia, have moved to 266 South Fifteenth street. Pennypacker 7439.

Thursday, May 20th, at 1.00 P. M., the Annual Spring Outing of Philadelphia Builders' Exchange and Employers' Association, will be held at the Cedarbrook Country Club, Limekiln Pike and City Line.

The afternoon will be devoted to golf, the evening to a high class vaudeville entertainment with a man sized dinner separating the two. Those not golfers will enjoy quoits, cards, baseball or other sports. Something for everybody.

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Reference Directory for Architects, Builders and Owners

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chitectural Cast Cut Stone Co.....Westmont, N. J.

ARCHITECTURAL IRON WORK
aker City Art Metal Works,
2445 N. Second St., Phila.

ARTESIAN WELLS.
dpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
bbins, Chas. H., Co. .....1729 Sansom St., Phila.
ber, F., Co. .....125 S. 12th St., Phila.
il, J. H., Co. .....1315 Cherry St., Phila.

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ue Print Shop.....1520 Sansom St., Phila.
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BOILER AND PIPE COVERINGS.
ezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
r, Janeway, & Co..Real Estate Trust Bldg., Phila.
M. & C. M. Siner..Church and Tacony Sts., Phila.
celsior Brick & Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving).
tcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
chell Bros. .....2125 Race St., Phila.
ser, M. J. .....4238 Old York Road, Phila.
eph Rotornado.....4740 Milnor St., Phila.

BUILDERS' SUPPLIES.
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Van Sciver Corporation,
The Parkway at 24th St., Phila.
st Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
skey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
chitectural Cast Cut Stone Co. ...Westmont, N. J.
eland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
Van Sciver Corporation.
The Parkway at 24th St., Phila.
st Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
auro, John .....55 E. Mermaid Lane, Phila.
sch, Wm. F. .....Narberth, Pa.
ssiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
ezey, John R. Glenwood Ave. w. of 22nd St., Phila.

COLUMNS (Metal).
rce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE SEWER PIPE.
udsburg Septic Tank Co..328 Chestnut St., Phila

CONCRETE WORK.
sch, Wm. F. .....Narberth, Pa.
ssiah, Frederick.. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
itt, Paul J. .....1101 S. 2nd St., Phila.
T. Ward Co. .....617 Filbert St., Phila.
vice Supply Corporation, 20th and Venango Sts.

CORK FLOORING
ezey, John R. Glenwood Ave. w. of 22nd St., Phila.

CURTIS WOODWORK.
ingham Co ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
lding News Pub. Co. ...1530 Chestnut St., Phila.

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i-Hydro Waterproofing Co.,
24th and Parkway, Phila.
nett Bingswanger.....829 N. 3rd St., Phila.
crete Waterproof Paint Co..829 N. 3rd St., Phila.
ter Builders Co., ...Otis Bldg., Phila.
scon Laboratories.....1505 Race St., Phila.

DOOR BEDS
phy Door Bed Co.....512 Bulletin Bldg., Phila.

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bbins, Chas. H., Co. .....1729 Sansom St., Phila.
ber, F. Co. .....125 S. 12th St., Phila.
l, J. H., Co. .....1315 Cherry St., Phila.

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sch, Wm. F. ....Narberth, Pa.
itary Sewage Disposal Corp..40 S. 52nd St., Phila.

FENCES.
it, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
ts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
sbord, Wolf .....4437-43 Ludlow St,. Phila.

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tgage Extension Corp.,.1011 Chestnut St., Phila.

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rce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES.
. Lingo & Son .....Camden, N. J.

FLOOR HARDENER.
i-Hydro Waterproofing Co., 24th and Parkway.
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ter Builders Co., ...Otis Bldg., Phila.
scon Laboratories.....1505 Race St., Phila.

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ilton Rubber Mfg. Co. ..2313 Walnut St., Phila.

FLOOR PLATES.
d, Alan, Iron & Steel Co..Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. .....44 N. 5th St. Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.

GAS RANGES.
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
Richardson & Boynton Co. .....1308 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GRADING
Harsch, Wm. F. .....Narberth, Pa.

GRANITE
Architectural Cast Cut Stone Co. ...Westmont, N. J.
John Meehan & Son.....916 W. Dakota St., Phila.
Vineland Architectural Cast Stone Works,
Vineland, N. J.

HARDWARE (Builders').
Devitt, Paul J. .....1101 S. 2nd St., Phila.

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Lewis, John W. .....7038 Gray's Ave., Phila.

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Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.

HOLLOW TILE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
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Ketcham, O. W. .....121 N. 18th St., Phila.

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Edwin Elliot Co. .....560 N. 16th St., Phila.

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1711 Chestnut St., Phila.
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Potts, Horace T. & Co. ....Erie Ave. and D St., Phila.
Wood, Alan, Iron & Steel Co...Widener Bldg., Phila.

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Weber, F., Co. .....125 S. 12th St., Phila.
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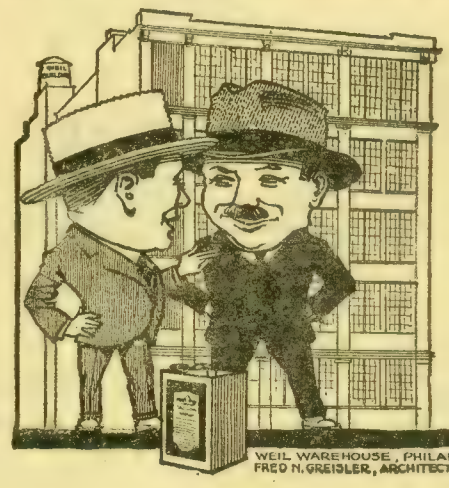
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Entered at the Philadelphia Post Office as Second-Class Matter

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May 19, 1926

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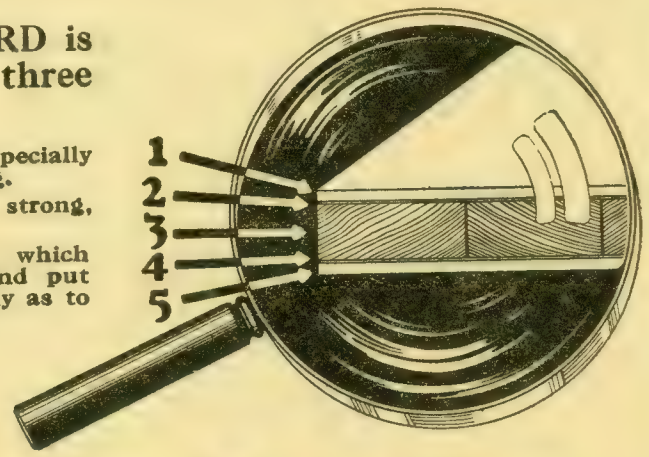
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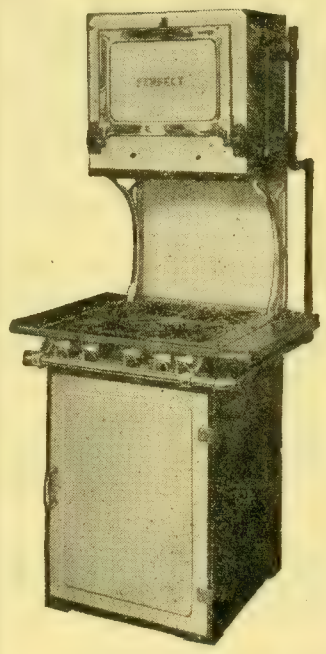
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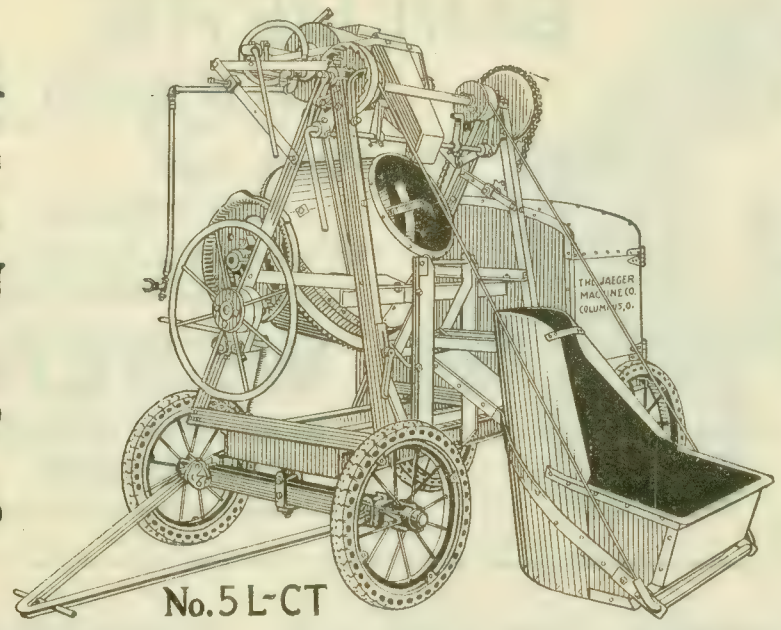
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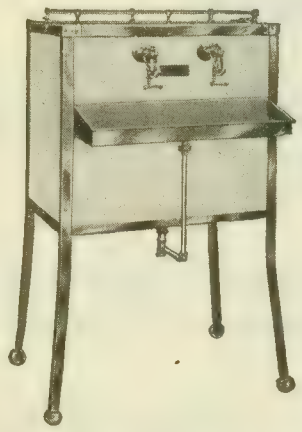
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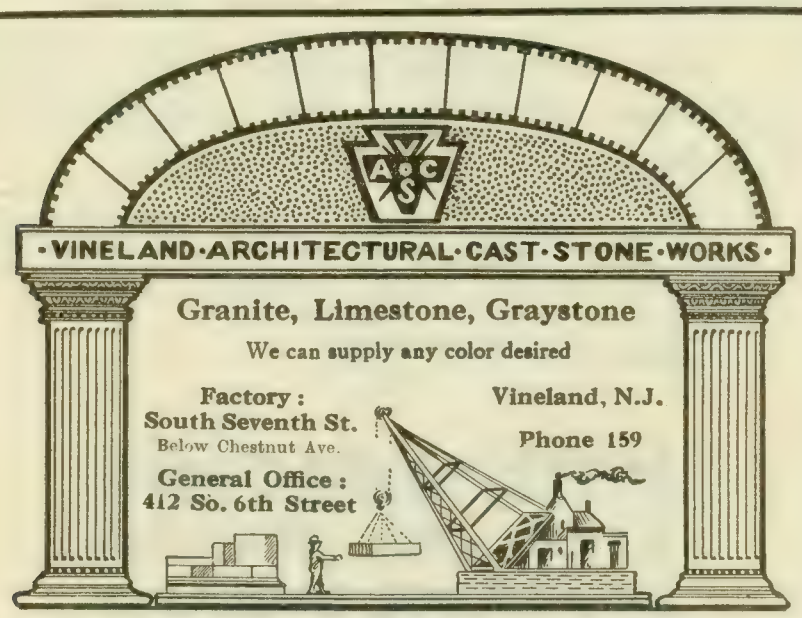
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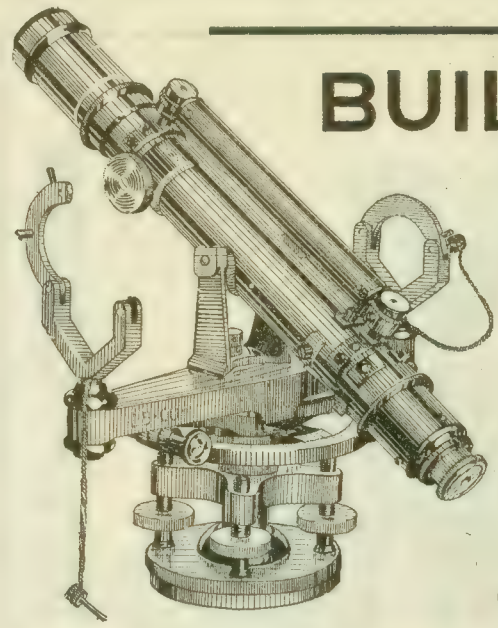
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 20

PHILADELPHIA
May 19, 1926

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Theatre (interior alts.), Broad near Rockland street, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Hunts' Theatre, W. S. Hunts, 1324 Vine street, Philadelphia. Sketches drawn. Work contemplated.

Theatre, Thirty-first and Diamond streets, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owner, Louis Kapner, 213 South Broad street, Philadelphia. Brick, concrete, terra cotta, 1 story and basement, 80x175 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile and marble work. Plans in progress.

Belmont Filtration Plant, Ford road and Belmont avenue, Philadelphia, $500,000. Owners, Department of Public Works, Bureau of Water, care of Director Biles, 216 City Hall, Philadelphia. Brick, steel, concrete. Plans completed. Owners will advertise for bids in a few days.

Residences (20), Rosalie street, Northwood, Philadelphia, Pa. Architect, private plans. Owners, T. P. & P. J. McFarland, 2409 East Allegheny avenue, Philadelphia. Brick, 2 stories, 16x35 feet, slag roof, oak and pine floors, hot water heat, electric light. Plans in progress. Ready for bids in a month.

Nurses' Home, Chestnut Hill, Pa. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owners, Chestnut Hill Hospital, care of Miss L. Le Fevre, 8815 Germantown avenue. Stone, steel, concrete, 3 stories. Plans in progress. Architects will be ready for bids in about 3 weeks.

Residences (16), Garages (2), Jericho and York road, Philadelphia, $25,000 to $30,000 each. Architect, Stanley K. Neubauer, 929 Chestnut street, Philadelphia. Owner, Weiss Koplin, Franklin Trust Building, Philadelphia. Concrete, brick, stucco, 2½ and 3½ stories, various sizes, hot water or vapor heat, electric light, hardwood floors, cement work, tile and marble work. Owner ready for sub-bids.

Store and Apartments (21), Forty-seventh and Baltimore avenue, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, Brown Brothers Co., care of A. Brown, 145 Fairmount avenue, Philadelphia. Brick, 3 stories, 16x50 feet, hot water heat, metal lath, tile and marble work, slag roof, hardwood floors, copper bulks. Owners taking sub-bids.

Residences (75), Belfield and Ruscomb streets, Philadelphia. Architect, private plans. Owner, George Schwinn, Conlyn street, East of Sixteenth street, Philadelphia. Brick, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work. Owner taking sub-bids.

Residences (6), North side Wesley road, McCallum and Cherokee avenue. Architect, private plans. Owners, Carson Brothers, 5601 Germantown avenue, Philadelphia. Stone, 2½ stories and basement, 40x24 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Owners will build in ten days.

Residences (62), Grover's avenue, between Sixty-seventh and Sixty-eighth streets, Philadelphia. Architect, private plans. Owners, Gillingham & Hynes, Sixty-sixth and Dicks avenue, Philadelphia. Brick, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light. Work contemplated. Will mature in the fall.

Building (alts.), Southeast Corner Eighteenth and Chestnut streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, Mastbaum Brothers & Fleischer, 1432 South Penn Square, Philadelphia. Excavation, brick work, cement, concrete work, hollow tile, cut stone, iron work, sheet metal work, plastering, metal lath, painting and glazing, sand blasting, plumbing, mail chutes. Revised plans about completed. Will take bids in a few days.

Garage, Monastery and Mitchell streets, Roxborough, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, Abe Tolins, care of architect. Brick, 1 story, 81x100 feet, slag roof, cement floors, electric light, rolled steel sash, plate glass, painting and glazing, carpentry and mill work. Architect taking sub-bids.

Store Building, 929 Market street, Philadelphia. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Harry C. Kahn & Son, Eleventh and Filbert streets, Philadelphia. Brick, reinforced concrete, cut stone, steel, limestone, 5 stories and basement, 200x23 feet, composition roof, cement and pine floors, elevators, roof ventilators, plumbing, integral waterproofing, dampproofing, steam heat, electric light, metal lath, tile

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House of the Good Shepherd, Penn and Chew streets, Germantown, Philadelphia. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, St. Magdalen Asylum, on premises. Stone, limestone trim, 3 stories and basement, 40x100 feet, slag roof, maple floors, electric light, terrazzo work, 2 passenger elevators, 2 dumb waiters, metal partitions, slate blackboards, slate treads, wrought iron stairs (plumbing, heating, electric light, power equipment, laundry equipment, grading, sodding, electric fixtures, kitchen equipment, shrubbery reserved). Architect taking bids due May 20th, 3 P. M. (Daylight Saving Time).

Mill Building (add.), Fifth and Courtland streets, Philadelphia. Architects, Harris & Richards, Drexel Building, Philadelphia. Owners, Gotham Silk Hosiery Co., 389 Fifth avenue, New York, and also on premises. Brick, 3 stories and basement, cut stone, reinforced concrete, 205x52 feet, wing 29x39 feet, Barrett Specification roof, cement and maple floors, elevators, safety treads, metal weather strip, dampproofing, terra cotta coping, floor hardener, tin clad and hollow metal doors, hollow metal sash, concrete piles, limestone, plumbing. Architects taking bids due May 21st, 9 A. M.

Office Building, Manufacturing Building and Garage, Rhawn street off State road, Fox Chase, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, John J. Nesbitt, Inc., Manufacturers of Universal Unit Centilator, Atlantic City, N. J. Steel, brick, 1 and 2 stories, 190x180 feet, saw-eooth construction roof, concrete floors, steam heat, electric light. Architects taking bids due May 20th.

Bank Building, Northeast Corner Broad and Airdrie streets, Philadelphia. Architect, William H. Lee, Schaff Building, Philadelphia. Owners, National Bank of North Philadelphia, 3701 North Broad street, Philadelphia. Steel, concrete, brick, terra cotta, 11 stories and basement and mezzanine, 50x55 feet, concrete floors, elevators, steam heat, electric light, marble work. Architect taking bids due May 27 at noon.

Manufacturing Building, Erdrick street, Wissinoming, Philadelphia. Architect, Lockwood Greene, 100 East Forty-second street, New York City. Owners, Soabar Co., C. L. Robinson, president, 4608 Edmund street, Philadelphia. Brick, steel, 1 story, 110x107 feet, asbestos asphalt roof, cement floors, plumbing, waterproofing, metal lath, rolled steel sash, fire doors, ornamental iron work, steel toilet partitions. Architects taking bids.

Apartment House, 1720 Rittenhouse street, Philadelphia. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Charles J. McIlvaine, Otis Building, Philadelphia. Brick, cut stone, steel, 12 stories and basement, 80x63 feet. Architect taking bids due May 24th at noon.

Residence, Strafford road, Chestnut Hill, Pa. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Charles Jenkins, care of architect. Stone, 2½ stories and basement, 20x22 feet, wing 38x24 feet, wing 19x15 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work, flagstone. Architects taking bids due May 21st.

Sewer Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 232 City Hall. Low bidders: Branson avenue, Jadolla & Mark, Hunting Park, East of Front street, $102,595.70. Green lane, Mazzola & Marano, 739 South Seventh street, $39,935. Packer avenue, west of Delaware avenue, Joseph and Robert Lombardi, Lincoln Building, Philadelphia, $247,418. Longdon street, Jafolla & Mark, Hunting Park, East of Front street, $134,387. Contract No. 210, South Philadelphia Track Elevation, George Dobbins, 1020 South Forty-seventh street, Philadelphia, $289,950.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 232 City Hall. Owners takin gbids due May 24th, 11 A. M. (Standard Time). Improvement of York road, Sparks street, North of Broad, Chelten, Seventeenth and others. Certified check, 5 per cent. of bid.

Supplies, Philadelphia. Owners, Board of Education, W Dicks, Nineteenth above Chestnut street, Philadelphia. Manual training equipment, furniture, physical training equipment, etc. Owners taking bids due June 1st, 11 A. M. (Standard Time).

Residences (17), South side Rosalie street, East of Horrocks street, $85,000. Owners, P. J. & T. P. McFarland, 2409 East Allegheny avenue, Philadelphia. Brick, 2 stories, 15x26 feet, 12x13 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (4), North side Magee street, West of Bingham street, $17,000. Architect, private plans. Owners, Smith & Peters, 6715 Jackson street, Philadelphia. Brick, 2 stories, 16x51 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (58), Fifty-eighth and Malvern streets, Philadelphia, $234,000. Architect, pri-

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vate plans. Owner, Charles M. Weild, Fifty-ninth and City Line, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, electric work. Permit granted.

Gas Service Station, Northeast Corner Thorpe's lane and Olney avenue, $8,000. Architect, private plans. Owners, Gulf Refining Co., 1515 Locust street, Philadelphia. Brick, 1 story, 21x17 feet, cement floors. Permit granted.

Gas Service Station, Northwest Corner Frankford and Trenton avenues, $7,500. Architect, private plans. Owners, Gulf Refining Co., 1515 Locust street, Philadelphia. Brick, 1 story, 15x15 feet, cement floors. Permit granted.

Residences, 4334-36-38 North Sixth street, Philadelphia, $6,500 each. Architect, private plans. Owner, Theodore Sydovyk, 4435 North Third street, Philadelphia. Brick, 2 stories, 16x29 feet, 13x13 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (14), Magee street, Oakley and Devereaux streets, $4,500 each. Architect, private plans. Owner, Harry F. Harting, 927 Tyson street, Philadelphia. Frame, 2 stories, 22x29 feet, 13x8 feet, hot water heat, electric light, slag roof, hardwood and pine floors. Permit granted.

Residences (22), Fuller, Ferndale and Stanwood streets, $4,000 each. Owner, Charles S. Mills, 4833 C street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (4), West side Tulip street, North of Princeton street, $4,500. Architect, private plans. Owner, Lawrence D. Stephano, 1413 Dickinson street, Philadelphia. Brick, 2 stories, 15x25 feet, 11x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (2), South side Fuller street, West of Loretta street, $4,000 each. Architect, private plans. Owner, Fred Redner, Cheltenham, Pa. Brick, 2 stories, 16x38 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residence, South side Lesser street, West of Eighty-seventh street, $3,000. Architect, private plans. Owner, H. Gray, 8720 Lisser street, Philadelphia. Brick, 2 stories, 14x30 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (24), Gibson, Edgewood, Millick, Sixtieth and Sixty-first streets, $118,500. Architect, private plans. Owner, J. A. Kincaid, 2206 Fitzwater street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (28), Wset side Rorer street, South of Louden street, $127,500. Architect, private plans. Owners, Goldstein Brothers, 1959 North Fifty-second street, Philadelphia. Brick, 2 stories, 15x27 feet, 10x9 feet, slag roof, hot water heat, electric light. Permit granted.

Residences (16), Fifty-second and Rexford streets, Philadelphia, $8,000 each. Architect, private plans. Owners, Olhausen & Dillin, 1519 Pennsylvania Building, Philadelphia. Block, 2 stories, 20x35 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Store, 925 Cherry street, Philadelphia, $5,000. Architect, private plans. Owner, H. D. Rose, 1427 Nedro avenue, Philadelphia. Brick, 2 stories, 14x63 feet, slag roof, pine floors, electric light. Permit granted.

Residence, West side Claridge street, North of Shelmire street, $4,800. Architect, private plans. Owner, F. W. Dietrich, Frankford and Devereaux streets, Philadelphia. Brick, 2 stories, 27x37 feet, slag roof, pine floors, electric light. Permit granted.

Residences (15), 3410-38 Barclay street, Philadelphia, $4,000 each. Architect, private plans. Owner, M. J. McCrudden, Real Estate Trust Building, Philadelphia. Brick, 2 stories, 16x25 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (27), Cheltham Ave., between Frontenac and Summerdale Aves., Phila. Architect private plans. Owner, Lincoln Const. Co., Cheltenham and Loretto Sts., Phila. Brick, steel, 2 stories and basement. 16x40, slag roof, oak and pine floors, hot water heat, electric light. Owner will build. Work about to start.

Supplies, Phila. Owner, Penna. R. R., Montg. Smith, 17th and Filbert Sts., Phila. Owner taking bids due May 27th at noon. (S. T.) Superstructure complete, 4 track signal bridges, steel work, for 15 spans second track, steel reinf. Metal work and rivets.

Contract No. 24-B, Delaware River Bridge. Furnish and erect pipe hand-railing, wire screens. Time, 40 days. Certified check, $1,000. Deposit $25.00. Refunded. Bond.

Contract No. 29-B. Plumbing and gas heating for toll hoouses and booths. Certified check $1,000 . Deposit $25.00 refunded, bond. Owners, Delaware River Bridge Joint Comm., Widener Bldg., Phila. Owner taking bids due May 21st, 12.30 P. M. (S. T.)

Kensington Recreation Center (Add.), Berks and Blair Sts., Phila. Architects, Thomas Martin and Kirkpatrick, 220 S. 16th St., Phila. Owner, Dept of Public Works, Bur. of Recreation, 595 City Hall. Owner taking bids due May 25th, 11 A. M.C. C. 5% of bid.

Residences (22), 1501-43 Kinsdale Ave., Phila. $111,500. Architect. Private plans. Owner, Harold P. Muller, 204 Oak Lane Trust Bldg., Phila. Brick, 2 stories, carious sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (20), W. side O. St. N. of Luzerne St., $81,000. Architect. Private plans. Owner, Robert A. McConaghy, Broad and Arch Sts., Phila. Brick, 2 stories, 15x27, 11x 9 feet, slag roof, hot water heat, electric light. Permit granted.

Garage, W. side 5th St. N. of Oregon Ave., Phila. $20,000. Owners, Babis & Bender Const. Co., 608 Shubert Bldg., Phila. Brick 50x189 feet, slag roof, cement floors, electric light. Permit granted.

Store, 2501 S. Hobson St., Phila. $9,000. Architect. Private plans. Owner, James Kangzelanz, 824 Chestnut St., Phila. Brick, 2 stories, 16x70 feet, slag roof, pine floors, electric light. Permit granted.

Misc. Work, Phila. Owner, Dept. of Public Works, Bureau of Water, 126 City Hall.

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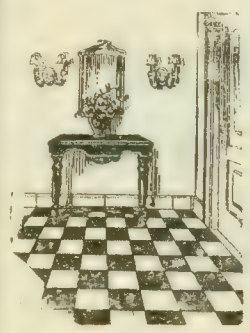


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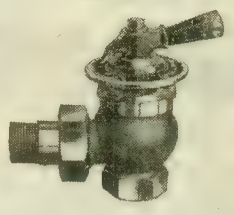


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Branch Sewers, Phila. Owner, Dept. of Public Work, Bur. of Waters, 216 City Hall. Owner taking bids due May 26th, 11 A. M. (S. T.), certified check $% of bid.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

New Commissary Building, Tenth and Lombard streets, Philadelphia, $700,000. Architect, Ralph Bencker, Bellvue Court Building, Philadelphia. Owners, Horn & Hardart, 214 South Tenth street, Philadelphia. Brick, limestone, granite, steel, cut stone, 8 stories and basement, 99x90 feet, slag roof, wood block, linoleum and cement floors, hollow tile, elevators, painting and glazing, membrane and mastic waterproofing, dampproofing, architectural terra cotta, metal toilet partitions, integral waterproofing, cork insulation, ornamental iron work, iron stairs, hollow metal and rolled steel doors, rolled steel skylights, hollow metal sash, tile and marble work, metal lath (heating, plumbing, electric, kitchen and bakery equipment, refrigeration reserved), wood block paving. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Bank, Market and Edgewood streets, Philadelphia, $80,000. Architect, J. Frank Bradley, 1121 Filmore street, Philadelphia. Owners, William Penn Title & Trust Co., care of A. Berman, 6019 Market street. Reinforced concrete, brick, cut stone, steel, 3 stories and basement, 32x98 feet (plumbing, heating, electric reserved), tile and marble work, Barrett Specification roof, cement floors, shoring, waterproofing, bond, fire and kalamein doors, hollow metal sash, steel toilet partitions, brass work, bronze work, screens, hardware, dumb waiters, linoleum floors. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Factory, Worth and Kinsey streets, Philadelphia, $225,000. Architects, Stearns & Woodnutt, Stephen Girard Build[illegible]adelphia. Owners, Globe Dye Works, [illegible] street, Philadelphia. Reinforced con[illegible]el, brick, 4 stories and basement, steam heat, electric light, slag roof, concrete floors. Contract awarded F. V. Warren Co., 1913 Arch street, Philadelphia.

Garage, Washington lane and Wayne avenue, Philadelphia. Architect, W. H. Henkle, 6225 Wayne avenue, Philadelphia. Owners, Kraekel Brothers, Washington lane and Wayne avenue, Philadelphia. Brick, steel, 2 stories and basement, 69x96 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, ornamental iron work. Contract awarded William McBride, 10 South Eighteenth street, Philadelphia.

Residence, Sprague street, near Gowan avenue, Philadelphia. Architect, Jesse T. Hoekstra, 1713 Sansom street, Philadelphia. Owner, Williard Graham, on premises. Stone, brick, cut stone, stucco, 2½ stories and basement, 35x22 feet, variegated slate roof, oak and pine floors, metal lath, tile work, painting and glazing, bond, ornamental iron work, structural steel. Contract awarded E. J. Heinke, Twelfth and Norris streets, Philadelphia.

Store and Apartment (alts. and add.), Southwest Corner Nineteenth and Federal streets, Philadelphia. Architect, Edwin L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Peter Winokur, Southwest Corner Nineteenth and Federal streets, Philadelphia. Slag roof, carpentry and mill work, plastering, painting and glazing, hardware, ornamental iron work. Contract awarded Wolf Sheffitt, 1009 Ritner street, Philadelphia.

Apartment House, 4205 Chester avenue, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Joseph Scutti, 412 Jefferson Building, Philadelphia. Brick, cut stone, 4 stories and basement, 167x46 feet, slag roof, cement, oak and pine floors, hot water heat, electric light, metal lath, tile and marble work, elevators, ornamental iron work, oil burning system, painting and glazing, composition floors, incinerator, plumbing. Contract awarded W. P. Cameron Engineering Co., Packard Building, Philadelphia.

Stores (alts.), 1129-31 Chestnut street, Philadelphia. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owners, Girard Estate, Lessee Lane Bryant, on premises. Leaded glass, metal lath, tile and marble, kalamein doors, metal bulks, ornamental iron, excavation, cut stone, brick work, cement,

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concrete, slag roof, carpentry, mill work, metal ceilings, plastering. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

Auction, Sales and Cold Storage Building, Delaware avenue, near Jackson street, Philadelphia. Architects, Office of Engineer, M. A. Long, Baltimore, Md. Owners, Baltimore & Ohio Railroad, Baltimore, Md. Lessees, Quaker City Cold Storage Co., P. Serrill, Water and Spruce streets. Brick, reinforced concrete, steel, 2 stories, 1026x114 feet, composition roof, cement and linoleum floors, hollow tile, safety treads, metal lath, rolled steel sash, hollow metal doors, ornamental iron work, metal toilet partitions, dumb waiters, acoustical treamtent. Contract awarded U. G. I. Contracting Co., Broad and Arch streets, Philadelphia.

Tower of Light, Sesqui-Centennial Grounds, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Sesqui-Centennial Association, 531 Chestnut street, Philadelphia. Structural steel, metal lath, stucco, 81 feet diameter, 145 feet high, 1 story, 2 wings, 75x40 feet, slag roof, reinforced concrete, rolled steel sash, colored glass. Contract awarded M. Melody & Son, 1322 Race street, Philadelphia.

Residence, West side Coulter street, South of Fox street, $20,000. Architect, Samuel Marshall, 1524 Chestnut street, Philadelphia. Owner, Clinton W. Miller, 4643 Morris street, Philadelphia. Brick, 3 stories, 46x23 feet, hardwood and pine floors, electric light, hot water heat, tile work. Contract awarded to John R. Erbe, 2551 North Sixth street, Philadelphia.

Residence, East side Henry road, South of Warden drive, $14,500. Architect, Albert F. Schenck, Real Estate Trust Building, Philadelphia. Owner, Joseph F. Winkler, on premises. Stone, 3 stories, 37x29 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to William J. Gruhler Co., 219 High street, Philadelphia.

Garage, 400 Gowan avenue, Philadelphia, $4,100. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owner, C. Z. Klauder, on premises. Stone, concrete, steel, 1 story, 18x20 feet, concrete and pitch roof, cement floors, plumbing, electric work, metal lath, waterproofing. Contract awarded to William C. Wright & Son, 22 Harvey street, Philadelphia.

Stores, Southeast Corner Frankford avenue and Granite street, Philadelphia, $10,000. Architect, private plans. Owners, Chabrow Brothers, Third and Locust streets, Philadelphia. Brick, 1 story, 90x55 feet, slag roof, electric light, pine floors. Contract awarded to M, Benjamin, 903 North American street, Philadelphia.

Factory (add.), Northeast Corner Van Kirk and Erdrick streets, $6,000. Architect, private plans. Owners, Richter Co., on premises. Brick, 2 stories add., 26x51 feet. Contract awarded to J. D. Fotheringham, 1000 Arrott street, Philadelphia.

Residence and Store (add.), 1436 Point Breeze avenue, $5,800. Architect, private plans. Owner, Adolph Miller, 631 South street, Philadelphia. Brick, 1 story, 16x18 feet, slag roof, electric work. Contract awarded to A. J. & S. Contracting Co., 2339 South Eleventh street.

Residence, East side Erdrick street, South of Benner street, Philadelphia, $5,000. Architect, private plans. Owner, Harry Dungan, 4630 Penn street, Philadelphia. Brick, 2 stories, 26x40 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to F. W. Dietrich, Frankford and Devereaux streets.

Garage, 1422 North Fifteenth street, Philadelphia, $4,700. Architect, private plans. Owner, Frank B. Waldron, 1515 Montgomery avenue, Philadelphia. Brick, 1 story, 23x75 feet, slag roof, cement floors, electric work. Contract awarded to Charles H. Schuster, 455 North Sixtieth street, Philadelphia.

Store and Residence (add. and alts.), 254 Queen Lane, $4,000. Architect, private plans. Owner, George D. Walker, 301 Queen Lane, Philadelphia. Brick, 2 stories add., 20x6 feet, general alterations. Contract awarded to W. R. Wayman, 741 South Chadwick street, Philadelphia.

Garage, 2714-16-18 North Fifth street, Philadelphia, $20,000. Architect, private plans. Owner, Bessie Gottleib, 6242 Washington avenue, Philadelphia. Brick, 2 stories, 54x80 feet, 69x73 feet, slag roof, cement floors. Contract awarded to M. Shapiro, 5008 North Eighth street, Philadelphia.

Residence, Northeast Corner Wakeling and Large streets, Philadelphia, $20,000. Owner, Charles T. MacDonough, 1220 Wakeling street, Philadelphia. Stone, 3 stories, 17x19 feet, 17x9 feet, slate roof, hardwood and pine floors, electric light, tile work. Contract awarded to J. D. Fotheringham, 1000 Arrott street, Philadelphia.

Foundry (alts.), 180 Duncannon avenue, Philadelphia, $6,500. Architect, private plans. Owners, Olney Foundry Co., on premises. General alterations. Contract awarded to Northern Const. Co., 5302 North Fifth street, Philadelphia.

Residence, South side Port Royal avenue, East of Schuylkill River, $5,000. Architect, private plans. Owner, Rodman Barker, on premises. Brick, 1 story, 24x31 feet, hardwood and pine floors, electric light. Contract awarded to Gottleib Steiner, 3443 Sunnyside avenue, Philadelphia.

Residence, North side Lansing avenue, West of Frontenac street, $5,000. Architect, private plans. Owner, E. Hinkle, 1925 Clearfield street, Philadelphia. Brick, 2 stories, 20x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to C. M. Sims, 201 Robat street, Philadelphia.

Residence and Store, 644 Moyamensing avenue, Philadelphia, $5,000. Architect, private plans. Owner, Isadore Gershman, 506 West Moyamensing avenue, Philadelphia. Brick, 2 stories, 16x78 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Charles Rochwag, 530 Porter street, Philadelphia.

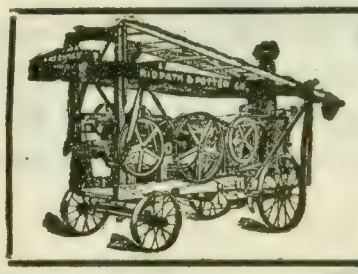
Residence (alts.), 15 West Abington street, Philadelphia, $3,000. Architect, private plans. Owner, Anthony Roman, 19 West Abington street, Philadelphia. General alterations. Contract awarded to Robert Killough, Wayne and Duval streets, Philadelphia.

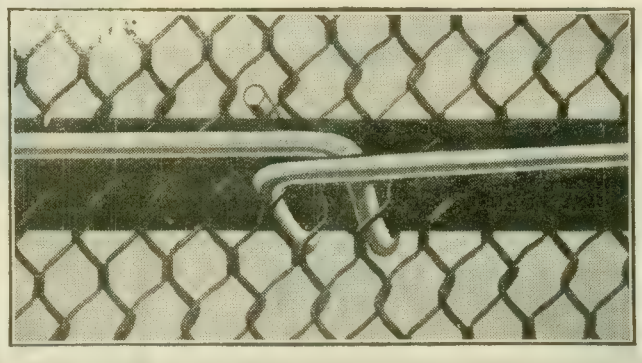
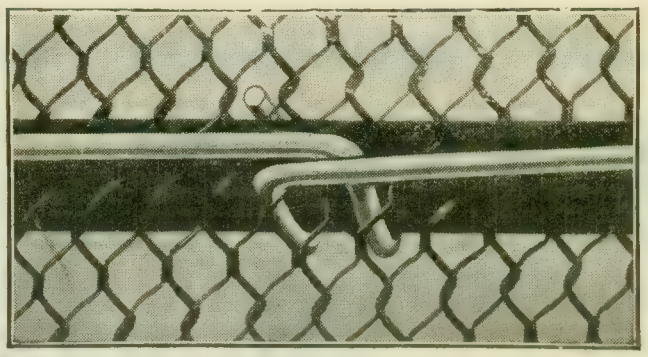
Residence, South side St. Vincent street, East of Summerdale street, $3,000. Architect, private plans. Owner, M. S. Szatlak, 4027 Fairhill street, Philadelphia. Frame, 2 stories, 24x36 feet, shingle roof, pine floors, hot water heat, electric light. Contract awarded to Victor Dick, 7310 Oxford avenue, Philadelphia.

Store and Residence (alts.), Southeast Corner Seventeenth and Carpenter streets, $3,000. Architect, private plans. Owner, Joseph Romisher, on premises. General alterations. Con-

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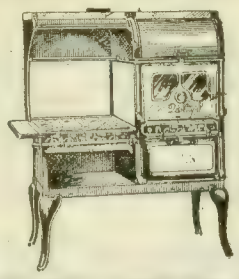

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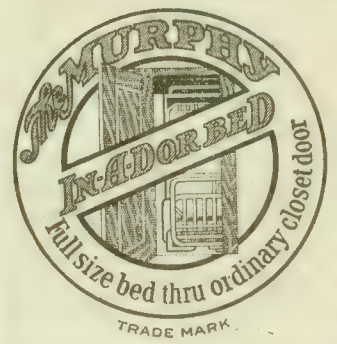
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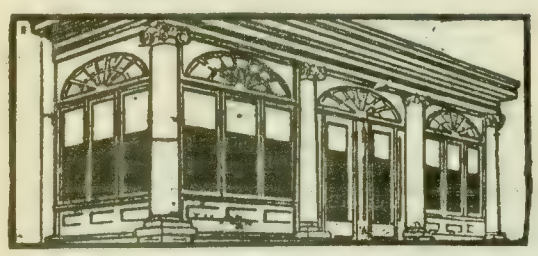
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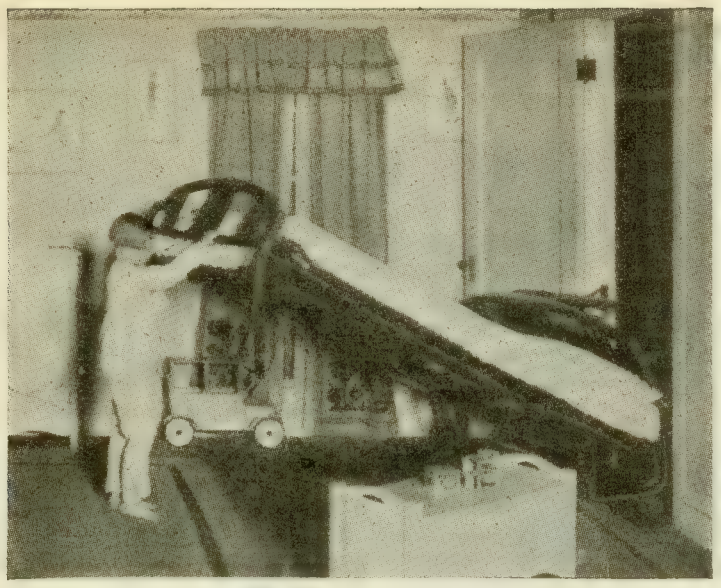
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tract awarded to H. Rubin, 4843 North Hutchinson street, Philadelphia.

Manufacturing Building (repairs), Northwest Corner Second and Pike streets. Architect, private plans. Owners, Coyne Brothers, Second and Pike streets, Philadelphia. General fire repairs. Contract awarded to William C. Wright & Son, 22 Harvey street, Philadelphia.

Oil Refinery (repairs), South side Wingate street, West of Tulip street, $2,500. Architect, private plans. Owner, John Harrison, Jr., on emises. **General fire repairs.** Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

Residence and Store (add. and alts.), 926 North Thirteenth street, Philadelphia, $2,500. Architect, private plans. Owner, Herman Henssler, 926 North Thirteenth street, Philadelphia. Brick, 2 stories add., 16x13 feet, general alterations. Contract awarded to M. A. Greene, 1607 North Thirteenth street, Philadelphia.

Residence (add.), 2637 East Somerset street, Philadelphia, $2,000. Architect, private plans. Owner, John Chicchia, 2637 East Somerset street, Philadelphia. Brick, 2 stories, 14x30 feet, slag roof, pine floors, electric work. Contract awarded to John Gulmantonicz, 2926 East Somerset street.

Exhibition Building, Southwest Corner Broad and Pattison avenue, $50,000. Owners, City of Pittsburgh, Pa. Frame, 1 story, 97x50 feet. Contract awarded to A. R. Reid, Oliver Building, Pittsburgh, Pa.

Store and Residence, 249 South street, Philadelphia, $7,000. Architect, private plans. Owner, Mr. Bernholtz, care of builders. Brick, 3 stories, 16x31 feet, 12x13 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Belinsky Brothers, 5423 Upland Way, Philadelphia.

Office and Residence (add.), 4642 North Broad street, Philadelphia, $4,700. Owner, J. P. Moore, 1828 Church lane, Philadelphia. Brick, 1 story add., 20x8 feet. Contract awarded to Albert M. Louden, 734 South Fiftieth street, Philadelphia.

Garage, 1931 East Huntingdon street, Philadelphia, $4,200. Owner, John Cunningham, on premises. Brick, 1 story, 15x66 feet, slag roof, cement floors, electric work. Contract awarded to Alfred Snyder, 544 Roxboro avenue, Philadelphia.

Store (add.), 5545-47 Germantown avenue, Philadelphia, $12,000. Architect, private plans. Owners, David and Agnes Cherry, 5326 Baynton street, Philadelphia. Elevator shaft. Contract awarded to Haines Brothers' Elevator Co., 237 Ionic street.

Residence, North side Whittaker street, West of Tudor street, $5,000. Architect, private plans. Owner, J. W. Angerman, 4025 North Fiarhill street, Philadelphia. Frame, 1 story, 30x45 feet, hardwood and pine floors, hot air heat, electric light. Contract awarded to S. Szatlak, 4027 North Franklin street, Philadelphia.

Residence and Store, East side Tenth street, South of Snyder avenue, $4,800. Architect, private plans. Owners, Estate of W. S. P. Shields, Witherspoon Building, Philadelphia. Brick, 1 story, 22x22 feet, 22x10 feet, slag roof, pine floors. Contract awarded to W. M. Manuel, 5849 Ellsworth street, Philadelphia.

Residence, 703 South Randolph street, Philadelphia, $4,500. Architect, private plans. Owners, Bauen D'Italia Trust Co., 727 South Seventh street, Philadelphia. Brick, 3 stories, 15x25 feet, slag roof, pine floors, electric work. Contract awarded to Colonial Cons. Co., 4444 North Sixteenth street, Philadelphia.

Residence (repairs), 311 West Wellens avenue, Philadelphia, $2,750. Architect, private plans. Owner, Mrs. J. Fortenbacher, on premises. General fire repairs. Contract awarded to Joseph L. Burgert, 626 East Lippincott street.

Garage, 1610-14 Latimer street, Philadelphia, $60,000. Owner, H. C. Hollinger, 1611 Walnut street, Philadelphia. Brick, 3 stories, 66x107 feet, slag roof, cement floors, electric lighting, steam heating. Contract awarded to W. S. Gore, Sixty-second and Media streets, Philadelphia.

Garage, 1310-18 N. 5th St., Phila., $65,000. Owner, I. Cohen, 1310 N. 5th St., Phila. 2 stories, 75x191 feet, slag roof, cement floors, electric work. Contract awarded to Robbins Const. Co., 1137 N. Front St., Phila.

Residence, S. E. Cor. Bustleton and Krewson St., Phila. $10,000. Architect. Private plans. Owner, Fred Jones, Paul and Orthodox Sts., Phila. Brick 2 stories, 28x57 feet, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to Walter Freas, Bustleton, Pa.

Residence and Store (Add.), 6143 Ridge Ave., Phila., $7,000. Architect. Private plans. Owner, S. Cusskoff, 4235 Main St., Phila. Brick, 2 stories, 14x15, 13x97 feet, slag roof, pine floors. Contract awarded to Jos. Swett, 2549 N. Spangler St., Phila.

Coal Pockets, S. W. Cor Tacoma and Sangor Sts., Phila., $6,500. Archiect. Private plans. Owner, Oxford Fuel & Supply Co., Tacony, Phila. Contract awarded to Specialty Eng. Co., Allegheny and Trenton Aves.

Machine Shop (Add.), 738-48 S. 42nd St., Phila., $5,000. Architect. Private plans. Owner, A. Edmund Pausser, 1055 Locust St., Phila. Brick, 2 stories. add. 42x60 feet. Contract awarded to W. M. Manuel, 5849 Ellsworth St., Phila.

Garage, 1517-19 N. Bailey St., Phila. $4,000. Architect. Private plans. Owner, Harmon Sachs, 865 N. 28th St., Phila. Brick, 2 stories, 35x110 feet, slag roof, cement floors, electric work. Contract awarded to H. C. Dahl, 231 S. 8th St., Phila.

Residence and Store (Alts.), 1742 N. 21st St., Phila. $3,500. Architect. Private plans. Owner, B. Lit, 3137 Eastwick Ave., Phila. Contract awarded to I. Alterman, 5400 B St., Phila.

Pennsylvania Construction News

Bank Building, (Alts. and Add.), McAdoo, Pa. Architect, Morgan, French & Co., Inc., 19 W. 44 th St., New York. Owners, First National Bank, J. S. Brogan, Cashier, McAdoo, Pa. Brick and stone, story add., 23x125 feet, general alterations. Plans nearly completed.

Paving, Oakmont, Haverford Twp. Pa Owner, Commissioners of Haverford Twp., H. A. Fritschman, Oakmont. Approx. 28,6000 sy. yds. Deposit $5.00 refunded. C. C. $500. Owner taking bids due May 24th, 7.30 P. M. (D. L. S.)

Church (alts. to School), Oak and Church streets, Norristown, Pa. Architect, E. L. Crawford, Norristown, Pa. Owners, Norristown Borough School Board, H. H. Aikens, Norristown, Pa. Brick, 2 stories. Preliminary plans in progress.

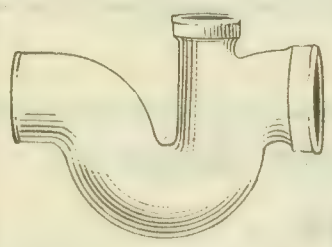
New Swimming Pool, Willow Grove Park, Willow Grove, Pa. Architect, Edward Schoeppe, 1437 Spruce street, Philadelphia. Lessee, Meyer Davis, Bellvue Court Building, Philadelphia. Concrete, 6,700 square feet. Preliminary plans in progress. Too early for details.

Residences (20), Roberts avenue and State road, Lansdowne, Pa. Architect, private plans. Owner, Henry F. J. Koedding, 401 Pembrook avenue, Lansdowne, Pa. Stone, stucco, 2½ stories and basement, 16x42 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Owner will build in a month.

Residences (30 semi-detached), Yeadon, Delaware County, Pa. Architect, private plans. Owner, W. Raymond Evans, 19 North

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Lansdowne avenue, Lansdowne, Pa. Frame and stucco, 2 stories and basement, 18x40 feet, asbestos shingle roof, oak and pine floors, central heating plant, electric light, metal lath, tile work, ornamental iron work. Work contemplated. Ready for bids in two months.

Residence, Pottsville, Pa. Architect, B. Rush Stevens, 1827 Arch street, Philadelphia. Owner, L. T. Brandon, Pottsville, Pa. Hollow tile, brick veneer, 2½ stories, 40x30 feet, slate roof, hardwood floors, vapor heat, electric light, tile work, plumbing. Architect ready for general bids in two weeks.

Residences (12), Woodland avenue, South Springfield, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owners, McDevitt & Mullin, Sixty-third and Lancaster avenue, Philadelphia. Stone, stucco, 2½ stories, various sizes, hardwood floors, hot water heat, electric light, tile work. Owners will build.

Twin Residences and Garages (64), State road, Arominink, Delaware County. Architect, private plans. Owner, J. F. McGinty, on site. Brick, stone 2 stys., various sizes, garage, 10x18 feet, shingle and slag roof, hardwood and cement floors, hot water heat, electric light, tile work. Owner will build. Additional 400 contemplated.

Residence, 719 Hass avenue, Norristown, Pa. Architect, E. Lane Crawford, Norristown, Pa. Owner, George C. Morgan, 723 Hass avenue, Norristown, Pa. Brick, 3 stories, 16x38 feet, slate and slag roof, pine floors, hot water heat, electric light. Owner taking sub-bids.

Bank Building, Norristown, Pa. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Owners, Montgomery Trust Co., J. Aubrey Anderson, Norristown. Brick, steel, limestone, concrete, 7 stories, 30x200 feet, steam heat, electric light, elevators, bank fixtures, ornamental iron work. General contractor, F. R. Heavner, Norristown, Pa., taking sub-bids due May 23rd.

College Building (2 adds.), Cornwells, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Holy Ghost Apostolic College, Cornwells, Pa. Stone, cut stone, brick, steel, 3 stories and basement, 50x50 feet each, slate and slag roof, cement and pine floors, roof ventilators, shoring, ornamental iron work, iron stairs, bond, tin-clad and kalamein doors, rolled steel skylights, tile and marble work, metal lath, soundproof treatment, demolition dumb waiter. Architects taking bids due May 21st, 10 A. M. (Daylight Saving Time).

Hospital (add.), Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Allentown Hospital, E. N. Kroninger, chairman Building Committee, 1627 Chew street, Allentown, Pa. Fireproof, 3 stories, 50x150 feet, slag roof, composition and tile roof, roof ventilators, hollow tile, elevators, safety treads, metal window guards, metal weather strip, waterproofing and dampproofing, ornamental iron work, iron stairs, bond, fire doors, steel sash and skylights, tile and marble, metal lath (heating, plumbing and electric separate). Architects taking bids due June 4th.

Grade School, Vera Cruz, Upper Milford Township, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Upper Milford Township School Board, Andrew Heller, secretary, Emaus, Pa. Brick, steel, 2 stories, 40x90 feet, built-up roof, composition floors, roof ventilators, safety treads, hollow tile, bond, fire doors, rolled steel sash, metal lath (heating, plumbing and electric separate). Architects taking bids due June 5th.

Apartment House, Wycombe avenue, between Linden and Nyack avenue, Lansdowne. Architect, Oliver Randolph Parry, 1824 Sansom street, Philadelphia. Owners, The Dudleigh Court Apartments, Inc., care of architect. Brick, cut stone, steel, 3 stories and basement, 120x110 feet, composition and slate roof, cement, oak and pine floors, hollow tile, plumbing, roof ventilators, steam heat, electric light, metal lath, tile work, hollow metal sash, rolled steel skylights, bond, ornamental iron work, bluestone, limestone, oil burner. Architect taking bids due as soon as possible.

Roosevelt School (alts. and add.), Middletown road and Well's Corner, Delaware County, Pa. Architect, Newton Flounders, Allison Building, Media, Pa. Owners, School Board of Middletown Township, Lima School, Lima, Delaware County, Pa. Stone work, concrete, slag and slate roof, ventilators, folding partitions (heating and ventilating and electrical work separate). Plans $5.00 per set (refunded). Certified check required. Architect taking bids due May 25th at 5 P. M. (Standard Time), to be opened at 7 P. M. (Standard Time) by the School Board of Middletown Township.

Power House, Susquehanna and Huntingdon avenue, Abington, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School Board of Abington Township, C. M. Doll, Abington, Pa. Stone, limestone, granite, brick, steel, 57x84 feet (plumbing, heating, electric equipment separate), slag roof, cement floors, painting and glazing, rolle dsteel sash, steel doors, bond, ornamental iron work, bluestone. Owners taking bids due May 24th, 7 P. M, (Standard Time).

Gym (add.), Park School, Highland avenue and Welsh road, Abington Township, Willow Grove, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School Board of Abington Township, C. W. Doll, Abington, Pa. Concrete block, stucco, brick, steel, 1 story and basement, 88x40 feet (plumbing, heating, electric separate), Barrett Specification roof, cement floors, pine floors, painting and glazing, rolled steel sash, waterproofing, ornamental iron work. Owners taking bids due May 24th 7 P. M. (Standard Time).

Stores (4), Apartment, Wayne, Pa. Architects, Mackenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Joseph M. Fronefield, 3rd, 104 North Wayne avenue, Wayne, Pa. Brick, 2 stories, 20x30 feet, hot water heat, electric light, slag roof, hardwood and pine floors. Architects taking bids due as soon as possible.

Residence and Garage, St. David's, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Allen C. Hale, Wayne, Pa. Brick, stone, 2½ stories and basement, 56x43 feet, wing 22x18 feet, 20x20 feet, variegated slate roof, oak and pine floors, metal lath, tile and marble work, bond, bluestone, area gratings. Architects taking bids due May 20th.

Bridge, No. 88, Ambler, Upper Dublin Township, Pa. Architect, private plans. Owners, Montgomery County, W. C. Irvine, Norristown, Pa. Reinforced concrete bridge. Owners taking bids due May 22nd, 11 A. M. (Standard Time).

Residence and Garage, Haverford, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, S. S. Thornton, care of Thornton-Fuller Co., Twenty-fourth and South streets. Stone, cut stone, limestone, 2½ stories and basement, 57x34 feet, garage, 23x34 feet, variegated slate roof, oak, pine and cement floors, hot water heat, electric light, tile work, metal lath, bond, ornamental iron work, plumbing, painting and glazing. Architects taking bids due May 21st at noon.

Fire House, Glenside, Pa. Architect, private plans. Owners, Glenside Fire Co. No. 1, Glenside, Pa. Brick, reinforced concrete steel, 2 stories and basement, 47x60 feet (plumbing, heating, electric lockers separate bids), slag roof, cement floors, metal ceilings, shoring, waterproofing, metal lath, rolled steel sash, fire doors, bond, iron stairs, ornamental iron work, area gratings. Owners taking bids.

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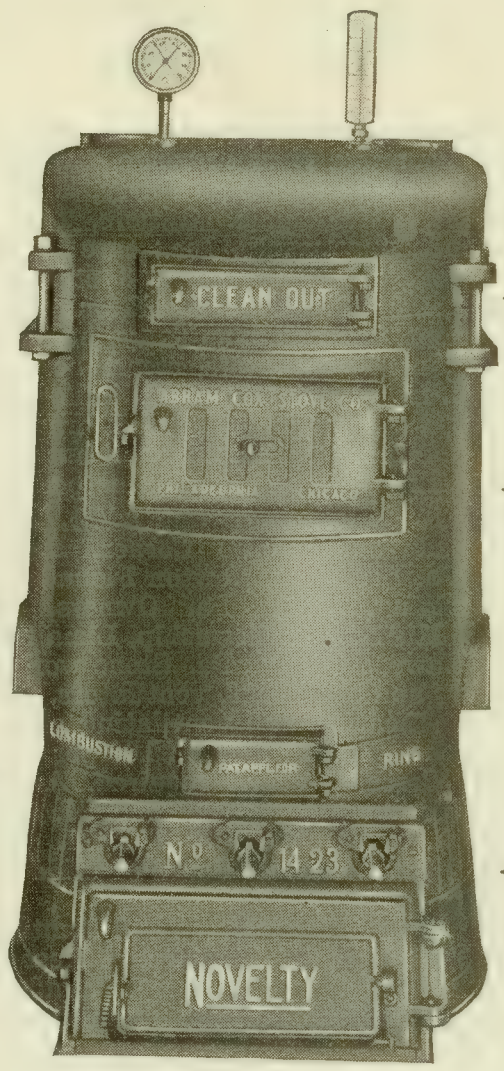
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Have you seen the boiler with the combustion ring? If you haven't seen it work, then you don't know the saving that the ring (illustrated below) makes in the amount of fuel used and the increased length of the firing period.

The combustion ring surrounds the firepot to a height of 4½ inches above the grates, and it has increased the heating capacity alone of the boiler to equal that of a size larger in the old style type.

This ring prevents the lower portion of the firebed from coming in contact with the water sections which surround the firepot. The cool water returning from the radiators, enters both sides of the boiler at the bottom of the water section. This water, because it is much cooler than the fire, chills the fire around the sides of the pot, below the temperature of combustion. The result is, that the boiler requires more frequent attention. Also, partly burned fuel along the sides of the firepot is wasted because there is no fire under it to burn it and it settles down to the grates, passing to the ashpit when the fire is shaken.

But with the combustion ring, there is a clean, even-burning fire over the entire area of the firepot. There is no water back of the ring to draw the heat from the fire and to chill it. All of the fuel is completely consumed and more heat is produced from the same amount of coal burned.

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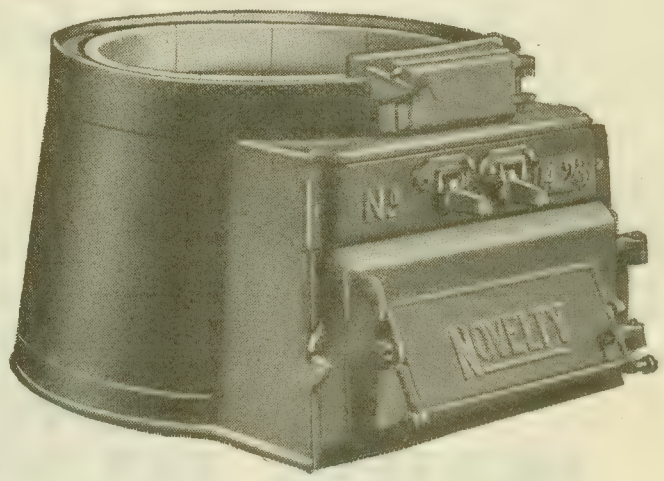


Illustration of Combustion Ring

Pennsylvania Contracts Awarded

Passenger and Freight Station, Easton, Pa. Chief engineer, 143 Liberty street, New York City. Owners, Lehigh Valley Railroad Co., 143 Liberty street, New York City. Brick, reinforced concrete, steel, limestone, 1 and 2 stories, 365x65 feet (plumbing, heating, electric and elevators reserved), built-up roof, cement floors, metal lath, tile, marble and terrazzo work, rolled steel sash, waterproofing, ornamental iron work, bluestone, linoleum floors, area gratings. Conrtact awarded F. D. Hyde, Inc., 90 West street, New York City .

Residence and Garage, Wynnewood, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, Samuel C. Wagner, Jr., Wynnewood, Pa. Stone, 2½ stories and basement, 97x31 feet, shingle roof, oak and pine floors, vapor heat, electric light. Contract awarded Lower Merion Realty Co., Land Title Building, Philadelphia.

Residence and Garage, No. 588, Wynnewood, Pa. Architects, McIlvain & Roberts, Otis Building, Philadelphia. Owner, Samuel C. Wagner, Wynnewood, Pa. Stone, 2½ stories and basement, 98x51 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, plumbing, ornamental iron work. Contract awarded E. J. Heddon Co., Finance Building, Philadelphia.

Sales and Service Building, Drexel Hill, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Henry Statzell, Drexel Hill, Pa. Brick, steel, 1 story, 70x54 feet, slag roof, cement floors, steam heat, electric light, tile work. Contract awarded to George P. Gehring, 5735 Warrington avenue, Philadelphia.

Residence and Garage (alts. and add.), 202 Clwyd road, Cynwyd, Pa. Architect, H. Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owner, Horace P. Liversidge, Cynwyd, Pa. General alterations, hot water heat, electric light, tile and marble work, plumbing, new driveway. Contract awarded Lester Y. Bowman, Narberth, Pa.

Store and Office (add. and alts.), Easton, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Farr Brothers, Inc., 739 Hamilton street, Allentown, Pa. Brick, 1 story, 30x79 feet, slag roof, hardwood floors, electric work. Contract awarded to Asa P. Smith, 1225 Ferry avenue, Easton, Pa.

High School, Bangor, Pa. Architects, Ruhe & Lange, 12 North Sixth street, Allentown, Pa. Owners, School District, Borough of Bangor, Northampton County, Reimer Speer, secretary, Bangor, Pa. Brick, steel, 2 stories, built-up roof, maple floors, hollow tile, electric light, metal lath, steel sash, iron stairs. Contract awarded to John Stiles, Bangor, Pa.

Nurses' Home, Fourth street, Harrisburg, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, Polyclinic Hospital Nurses' Home, Harrisburg, Pa. Brick, 2½ stories, 42x222 feet. Contract awarded to W. E. Bushey, Lemoyne, Pa.

Delchester Bridge, Ridley Creek, Edgemont Township and Willistown Township, Delaware County and Chester County, Pa. Engineer, S. C. Hollister, Media, Pa. Owners, Delaware County, G. T. Wades, contractor, Chester County, J. Pierson, contractor, West Chester, Pa. Reinforced concrete, 35-foot span, 27-foot roadway, 5 feet 10 inches sidewalk. Contract awarded Irwin T. Stout Co., Pottstown, Pa., $13,205.

High School, York road and Horsham road, Hatboro, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School Board of Hatboro, Hatboro, Pa. Contract awarded Roy Randall, Jenkintown, Pa., $74,985. Heating, plumbing, electric bids due June 1st. Owners taking bids.

Residence (alts. and add.), Mt. Airy, Pa. Architect, Robinson Lea Perot, 137 Harvey street, Philadelphia. Owner, name withheld. Stone, brick, steel, built-up roof, gas lighting and electric work, cement work, plastering, painting, carpentry and mill work. Contract awarded W. O. Springer, 2004 Naudain street, Philadelphia.

Sunday School, Frackville, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Peter's Reformed Church, Rev. A. E. Schellhase, Frackville. Brick, structural steel, 2 stories and basement, 65x70 feet, slate and composition roof. Contract awarded to Edwin H. Becker, Schuylkill Haven, Pa.

School, Jeffersonville, Montgomery County, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owners, West Norristown School District, Jeffersonville, Pa. Contract awarded Frank Schuler, Norristown, Pa., $69,465.

Residence (alts. and add.), Jenkintown, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Mrs. W. H. Fretz, Jenkintown, Pa. Carpentry and mill work, plastering, painting, glazing, electric work. Contract awarded Fesmire Brothers, Huntingdon Valley, Pa.

New Jersey Construction News

Jail, Bridgeton, N. J. Architect Thomas Edward Ash, 1012 Walnut St., Phila. Owner, Board of Freeholders, Cumberland Co., W. Phifer, Bridgeton, N. J. Revised plans about completed. Owner will be ready for new bids in a few days.

Residence, Bellevue avenue, Trenton, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owner, C. P. Weeden, 217 Brunswick avenue, Trenton, N. J. Brick, 2½ stories, 33x26 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton. Owner, Benjamin Woodward, care of architect. Brick, 2½ stories, 32x42 feet, slate roof, hardwood floors, hot air heat, electric light, tile work. Plans in progress.

Bank, Broad and Liberty streets, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton. Owners, Chambersburg Trust Co., care of architect. Brick, steel, stone, 1 story, tile and marble, vault, bronze work, ornamental iron work. Plans in progress.

Bank, Prospect street, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton. Owners, Prospect National Bank, care of architect. Brick, stone, 1 story, tile and marble vault, bronze work, ornamental iron work. Plans in progress.

School, Labor Tract, Hamilton Township, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton. Owners, Hamilton Township School District, W. A. Robinson, clerk, Greenwood School, Trenton, N. J. Brick, steel, 2 stories, slag roof, maple floors. All bids rejected. Revised plans in progress.

Residence, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, J. J. Toussaint, care of architect. Two stories. Plans in progress.

Repair Shop (add.), 564 Walnut street, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Gustav Treichel, on premises. Brick, 2 stories, 16x20 feet, slag roof, pine floors, hot water heat, electric light. Plans in progress.

Church, Riverton, N. J., $75,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Calvary Presbyterian Church, Rev. C. T. Bates, Riverton, N. J.; George C. Dold, chairman of Building Committee, Riverton, N. J. Stone, steam heat, electric light, slate roof, maple floors. Plans drawn. Will be ready for bids in about two weeks.

Theatre and Stores, Hightstown, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, John & Mary Hight Amusement Co., care of architect. Brick, hollow tile, structural steel, 2 stories, 50x135 feet, 50x70 feet, slag roof, cement and tile floors, roof ventilators, ornamental iron, concrete stairs, fire doors, steel sash, metal lath, steam heat, electric light. Architect will be ready for bids at end of week.

Engineer's House, Lakeland, N. J. Architect, private plans. Owners, Board of Chosen Freeholders, Court House, Camden, N. J. Brick, stone, 2 stories, 35x20 feet, 16x18 feet, slate roof, pine floors, tile work. Will take revised bids.

Grade School (add.), Wildwood, N. J., $275,000. Architects, V. B. Smith, Atlantic City, N. J., and L. H. Boyer, Wildwood, N. J. Owners, Board of Education, William Todd, secretary, Wildwood, N. J. Brick, fireproof, concrete, 3 stories, 124x137 feet, slag roof, concrete floors, hollow tile, safety treads, roof ventilators, waterproofing (heating, plumbing and electric separate), metal lath, marble, sky-

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lights, kalamein doors, bond, concrete stairs. Architects and owners will be ready for bids in a few days.

Bank and Office, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Bankers' Trust Co., E. Richards, president, 1210 Atlantic avenue, Atlantic City, N. J. Fireproof, 4 stories, 25x120 feet, slag and concrete roof, tile, maple and composition floors, hollow tile, bond, vault, bronze work, tile and marble, metal lath (heating, plumbing and electric reserved). Architect will be ready for bids in a few days.

Store (add.), South Broad street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owners, Goldberg Department Store, care of architect. Brick, limestone, granite, steel, 5 stories, 24x134 feet, slag roof, maple floors, metal ceilings, cast stone, ornamental iron work, iron stairs, bronze, plate glass, heating extension, electric light, metal lath. Architect will be ready for bids in ten days.

Stores and Apartments, Forty-second and Federal streets, Merchantville, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Leon Harriton, care of architect. Brick, 3 stories, 36x60 feet, slag roof, hot water heat, electric light. Owner taking bids.

High Service Station, Princeton avenue, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Trenton Water Works, A. Swan, Commissioner, City Hall, Trenton. Concrete, brick, structural steel, 1 story, 49x31 feet, green slate roof, concrete floors, electric work, bronze tablets, cement stairs. Owners taking bids due May 21st.

Residence, Morris Heights, N. J. Architects, Fowler & Michel, 224 East Hanover street, Trenton, N. J. Owner, R. E. Anderson, care of architects. Concrete block, stucco, 2½ stories, 30x50 feet, slate roof, hardwood floors, electric light, tile work. Architects taking bids due May 21st.

Stores (6), Apartents (10), 1880 South Broad street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Henry Levie, on premises. Brick, steel, concrete, 2 stories, 125x85 feet, slag roof, hardwood floors, hollow tile, metal ceilings, ornamental iron, plate glass, copper work, steel sash, tile and marble, metal lath, vapor heat, electric light. Architect taking bids due May 20th.

Stores and Apartments (2) (alts. and add.), Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Samuel Borland, 1003 Atlantic avenue, Atlantic City. Brick, 3 stories, 27x80 feet, slag roof, pine floors, heating extension, electric light, tile work, plate glass. Owner taking bids.

Residences (5), 1600-08 Pierce street, Camden, N. J., $17,500. Architect, C. Harold Allen, 726 Stevens street, Camden, N. J. Owner, Daniel F. Hahn, 2036 Federal street, Camden, N. J. Block, 2 stories, 16x32 feet, slag roof, pine floors, hot air heat, electric light. Permit granted.

Female Ward, Hospital Building, Northfield, N. J. Architect, Hudson Vaughan, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Chosen Freeholders, E. J. Johnson, Atlantic City, N. J. All bids rejected.

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New Jersey Contracts Awarded

Memorial High School, King's Highway, Haddonfield, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Board of Education, W. Gentry Hodgens, president; B. W. Wilson, secretary, Lincoln avenue, Haddonfield, N. J. Brick, cut stone, steel, reinforced concrete, 2 stories, balcony and basement, 211x16 feet, 98x72 feet, 48x30 feet (plumbing, heating, electric and ventilating separate), slag, composition, green slate roof, linoleum, cement and aple floors, hollow tile, safety treads, waterproofing and dampproofing, ornamental iron work, iron stairs, bond, rolled steel doors and skylights, tile, marble and terrazzo work, metal lath, monolithic floors, area gratings, acoustical treatment. Contract awarded H. John Homan, Eighteenth and Cherry streets, Philadelphia.

Fire Headquarters, Shop and Water Tower, Trenton, N. J., $268,000. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, City of Trenton, care of Commissioners, City Hall, Trenton. Brick, steel, 2, 3 and 5 stories, 83x125 feet, 72x156 feet, Barrett roof. Contract awarded to J. H. Morris & Co., 211 North Montgomery street, Trenton. Electric to Randolph Elec. Co., 14 North Stockton street, Trenton, $8,585. Plumbing to Piper Brothers, 340 North Broad street, Trenton, N. J., $13,000.

Linden School Annex, Tenth and Linden streets, Camden, N. J. Architects, Edwards & Green, Van Russ Building, Camden, N. J. Owners, Camden Board of Education, M. Wessell, City Hall, Camden, N. J. Brick, steel, reinforced concrete, 1 story and basement, 88x56 feet (plumbing, heat, electric and ventilating separate), slag roof, composition roof, maple floors, roof ventilators, dampproofing, salt glazed terra cotta, metal lath, kalamein doors, bond, ornameneal iron work. Contract awarded to George W. Shaner & Son, Palmyra, N. J., $26,215. Heating to Harry Knecht, Collingswood, N. J., $3,689. Plumbing to C. H. Leupold, 1466 Haddon avenue, Camden, N. J., $2,664. Electric to Charles W. Wright, Camden, N. J., $740.

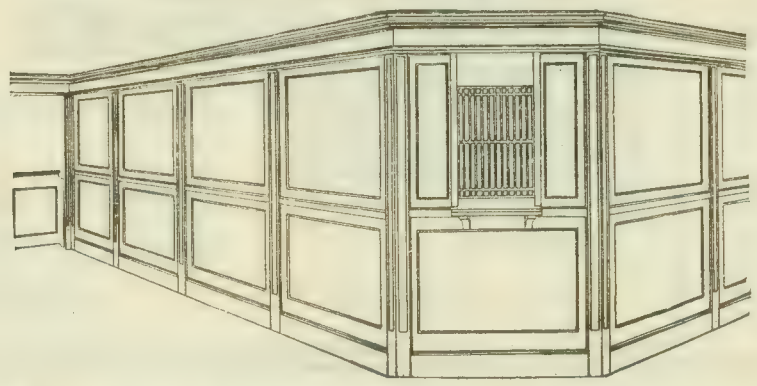
Gym Building, Whittier School, Chestnut street, Eighth and Sycamore streets, Camden. Architects, Edwards & Green, Camden, N. J. Owners, Camden Board of Education, Mr. Wessell, City Hall, Camden. Brick, 1 story and basement, 77x50 feet, slag and composition roof, maple and cement floors. Contract awarded J. M. Yardley, 1700 Walnut street, Philadelphia, $25,293. Plumbing, Charles H. Leopold, Camden, N. J., $3,594. Heating, Harry Knecht, Collingswood, N. J., $3,168. Electric, Enterprise Electric Co., 239 South Tenth street, Philadelphia, $543.

Factory, Bridgeton, N. J. Architect, Walter L. Custer, Bridgeton, N. J.. Owners, Herman J. Cutler Co., Fifth and Arch streets, Camden,

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N. J. Brick, steel, 1 story, 140x250 feet, slag roof, cement floors, roof ventilators, vapor blower systemm, electric light. Contract awarded George Maier & Bro., Bridgeton, N. J.

Police Station, Pensauken Township, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Pensauken Township, M. Braunworth, Delaware Gardens, Camden. Brick, 2 stories, 29x37 feet, slag roof, concrete floors, fire doors. Contract awarded to M. C. Pennell, Merchantville, N. J., $15,126. Plumbing to John J. Donahue, Merchantville, N. J., $1,000. Heating to Harry Knecht, Collingswood, N. J., $1,500. Electric to Walton Beatty, Merchantville, N. J., $410.

School, Elwood, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Mullica Township School Board, George Johnson, Elwood, N. J. Brick, steel, concrete, 1 story, 60x90 feet, slate roof, maple floors. Contract awarded to John Green, Pleasantville, N. J.

School, Linwood, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Linwood School Board, J. Farrish, Linwood, N. J. Brick, steel, concrete, 2 stories, 40x90 feet, slate roof, maple floors. Contract awarded to John Green, Pleasantville, N. J.

Residence and Garage, Riverton, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, C. W. Wanger, Riverton, N. J. Hollow tile, brick, 2½ tsories, 35x50 feet, wood and shingle roof, hardwood and cement floors, hot water heat, electric light, metal lath, tile and marble work. Contract awarded C. S. Moses, Edgewater Park, Pa.

Fire House, Lakeland, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Board of Chosen Freeholders, Court House, Camden, N. J. Brick, stone, cut stone, steel, 1 and 2 stories, 56x44 feet, slate roof, cement floors, ornaental iron, metal lath. Contract awarded to George C. Brandt, Blackwood, N. J., $15,750.

Store and Apartment, 633 South Warren street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Henry Levie, 1880 South Broad street, Trenton, N. J. Brick, steel, 2 stories, 22x80 feet, slate roof, pine floors, hot water heat, electric light, tile work, plate glass, copper work. Contract awarded to Peter Cracker, 70 Asbury street, Trenton, N. J.

Service Station and Garage, Hamilton Township, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, S. Feinstein, care of architect. Brick, steel, 1 story, 54x150 feet, slag and tile roof, concrete floors, hollow tile, steam heat, electric light, metal lath, steel sash, fire doors. Contract awarded to D. Teitz, 414 Market street, Trenton.

Residence, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, B. Tietch, care of architect. Brick, 2½ stories, 30x45 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to S. Teitz, 742 Greenwood avenue, Trenton, N. J.

Bungalow and Garage, Margate City, N. J. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owner, care of architece. Brick, frame, 1½ stories, 24x43 feet, 20x20 feet, slate roof, hardwood floors, hot water heat, electric light, eile work. Contract awarded to S. Lippincott, Atlantic City, N. J.

Store and Apartments (alts.), Haddon avenue, near Kaighn, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Broadway Realty Co., care of architect. Alterations to 2-story building, 40x85 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to H. Fearn, 4402 Westfield avenue, Camden, N. J.

Store and Warehouse, Fillmore street and Ferry avenue, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, J. J. Dawson, care of architect. Brick, 3 stories, 28x50 feet, slag roof, pine floors, steam heat, electric light. Contract awarded to Carl E. Widell, 39 South Sixth street, Camden, N. J.

Store, Haddon avenue and Division street, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Broadway Realty Co., care of architect. Alterations to 2-story building, 25x50 feet, slag roof, pine floors, hot water heat. Contract awarded to H. Fearn, 4402 Westfield avenue, Camden, N. J.

Residences (2), Garage (1), 916-18 Everett street, Camden, N. J., $8,000. Architect, C. Harold Allen, 526 Stevens street, Camden, N. J. Owner, Wojeck Pyack, care of architect. Brick, 2 stories, 14x47 feet, slag roof, pine and cement floors, hot water heat, electric light, garage 10x17 feet. Contract awarded to Barney Padwshak, 1628 Kolo street, Camden, N. J.

Residences (2), 1272-74 Thurman street, Camden, N. J., $8,000. Architect, C. Harold Allen, 526 Stevens street, Camden, N. J. Owner, William Pawlak, 1285 Morton street, Camden, N. J. Brick, 2 stories, 14x50 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Anthony Kincher, 1527 Norris street, Camden.

Chapel (alts.) into Parochial School, Second street, Ocean City, N. J. Architect, private plans. Owners, St. Augustine's Church, Rev. Thomas F. Blake, 1335 Asbury avenue, Ocean City, N. J. General alterations. Contract awarded to Frank D. Priory, Trenton, N. J.

Miscellaneous Construction News

Theatre, Baltimore, Md., $1,500,000. Architects, Hoffman-Henon, Finance Building, Philadelphia. **Owners, The Stanley Co.** of America, 1916 Race street, Philadelphia. Brick, steel, terra cotta, cement floors, hollow tile, architectural terra cotta, fire doors, tile, marble work, metal lath, electric light, steam heat, slag roof. Seating capacity 4,000. Site being cleared. Architects ready for sub-bids in two weeks.

Chapel, Wilmington, Del. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Christ Our King Roman Catholic Church, Wilmington, Del. Brick, reinf. concrete, steel, stone, cut stone, 1st story and base 168x68 feet, slag roof, cement and maple floors, metal lath, tile and marble work, tin clad doors, bond iron stairs, orna. iron work, oil burning equipment, granite area grills, limestone, caulking, painting and glazing. Architects taking bids due May 25th.

Miscellaneous Contracts Awarded

School and Auditorium, Pennsylvania avenue and Franklin street, Wilmington, Del. Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owners, Ursiline Nuns, Wilmington, Del. Brick, stone, cut stone, steel, 2½ stories and basement, 198x114 feet, green slate, Bangor slate, Vermont slate roof, pine floors, plumbing, Truscon waterproofing, demolition, limestone, metal partitions, brass pipe, ornamental iron work, fire and kalamein doors, hollow metal sash, tile, marble and terrazzo work, metal lath, electric. Contract awarded Joyce & Kerrigan, Wilmington, Del.

Botany and Zoology Building, Wellsley, Mass. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Wellsley College, Wellsley, Mass. Brick, stone, concrete, steel, 4 stories. Contract awarded Fred T. Levy, 19 West Forty-fourth street, New York City.

G. Harold Murphy, C. R. Murphy and N. S. Ludwig, Associate Architects, formerly of Drexel Bldg., Phila., have opened offices at 4308 N. Broad St., Phila. Michigan 4566.

Sherridan Bros., formerly located 1714 Ludlow St., Phila., are now located 870 N. 44th St., Phila. (GENERAL CONTRACTORS.)

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Proposals

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 15, 1926. Sealed Proposals will be opened in this office at 3 P. M., June 1, 1926, for changes of conduits and wiring in the U. S. Mint, Philadelphia, Pa. Drawings and specifications may be obtained at the office of the Superintendent of the Mint, Philadelphia, Pa., or at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any soruce whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 15, 1926. Sealed Proposals will be opened in this office at 3 P. M., June 1, 1926, for a wood block floor at the United States Mint, Philadelphia, Pa. Drawings and specifications may be obtained from the Superintendent of the Mint, or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 15, 1926. Sealed Proposals will be opened in this office at 3 P. M., June 1, 1926, for terrazzo floors at the United States Mint, Philadelphia, Pa. Drawings and specifications may be obtained from the Superintendent of the Mint or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

CONVENIENT HOUSES MAKE BETTER HOMES

"Convenience at moderate cost is one of the most important features that a better homes demonstration house can show to a community," says Dr. Louise Stanley, chief of the Bureau of Home Economics of the United States Department of Agriculture.

For two years Doctor Stanley has been on the Advisory Committee of Better Homes in America and has helped to pick the prize houses. Convenience is one of the things she looks for first in sizing up a house plan. She believes of course that a home should be attractive inside and out, and that every effort should be made to provide sound construction and safeguards against fire and other risks. In planning, building, and furnishing a house, Dr. Stanley says more thought needs to be given to the features that make for comfort and ease of care. The work of cooking, cleaning, and keeping the house in order can then be cut to a minimum. The following are some of the points that seem to her most important:

"Plan the house to meet the needs of the people who are to live in it, and be sure that the exterior design fits the site. Consider the placing of the rooms as regards sunshine and prevailing winds.

"Give careful thought to the arrangement of rooms in the three chief areas for living, sleeping, and work. Make these groups convenient in themselves and to each other.

"Measure large pieces of furniture and plan the rooms to fit them.

"The living room should be large, light, and airy. If necessary, sacrifice the size of the dining room to make a large living room, or have only a dining alcove, or make a combination living and dining room.

"Econominze also on something else if necessary and have a generous substantial fireplace in the living room. With a good central heating system a fireplace is not needed for heat except perhaps between seasons, but every home needs the beauty and cheer of an open fire. An ash chute to the basement lessens the work of caring for a fireplace. If possible, arrange a cupboard or a closet off the living room for papers, magazines, games, music, and extra firewood.

"A pass closet or cabinet for china, silver, and table linen built into the wall between the dining room or alcove and the kitchen is a great convenience.

"The kitchen is a whole problem in itself, but to put it briefly it should be as compact as possible with equipment set at comfortable height and grouped into well-lighted, well-ventilated centers for the various jobs. Convenience also depends in large measure on adequate storage facilities for utensils and supplies and on good connections with the rest of the house.

"Light, air, and privacy are the prime considerations in the bedrooms. A clothes closet wide enough for a pole and hangers, not just a shallow cubby hole that tries to pass for a closet, should connect with every bedroom.

"A closet for linen and bedding is also needed in this section of the house. Every house should also have a storage place for trunks, suitcases, and clothing not in use. If the house has two stories try to have a closet for cleaning supplies and tools on the second floor as well as the first.

"A sleeping porch is very desirable. It will be more convenient and comfortable if screened against flies and mosquitoes and fitted with windows or canvas curtains to keep our rain and snow. Broad overhanging eaves are also a protection against wind, weather, and light, and give privacy.

"Keep the bathroom small so that there will be less floor and wall space to clean. If possible have a built-in tub which leaves no part of wall and floor difficult to reach for cleaning. By all means have a cupboard for toilet supplies and the small articles that often clutter the bathroom, and a small closet for storing towels.

"Halls provide passageway from room to room and insure privacy. They should occupy only a relatively small proportion of the total floor space. An entrance hall even if no larger than vestibule is desirable in every house, and if possible there should be a coat closet opening off this hall.

"The stairway, whether boxed in or open, should have steps of a height and width that are easy to travel, and should be well lighted at night as well as during the day.

"In choosing the material and finish for floor, walls, and inside trim think of them in terms of care and upkeep and measure the cost of these as well as the original outlay. Fortunately for the homemaker, the tendency nowadays is for plain effects.

These points mentioned so far have to do especially with the inside of the house. Porches, steps, and walks, however, greatly influence comfort, convenience and the work required to keep the house clean."

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soil with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

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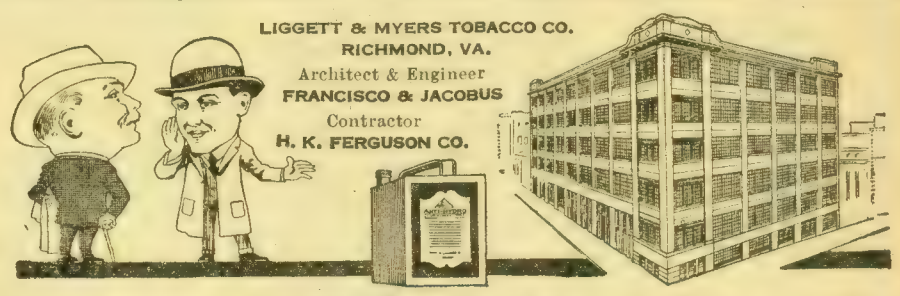
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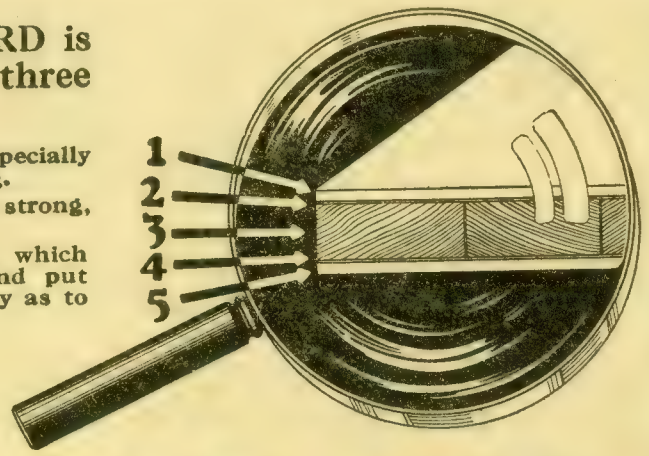
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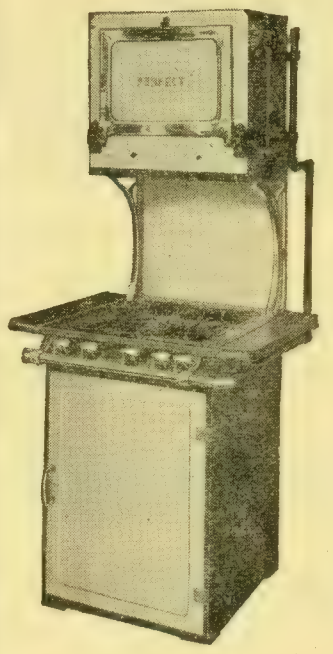
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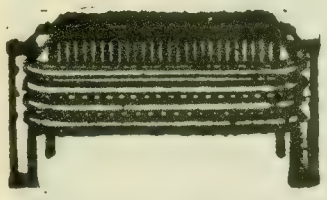
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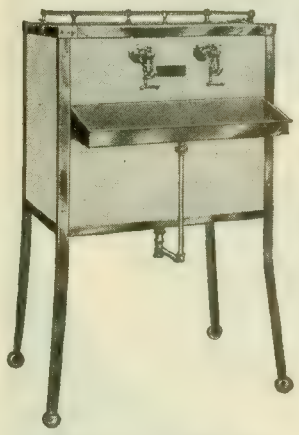
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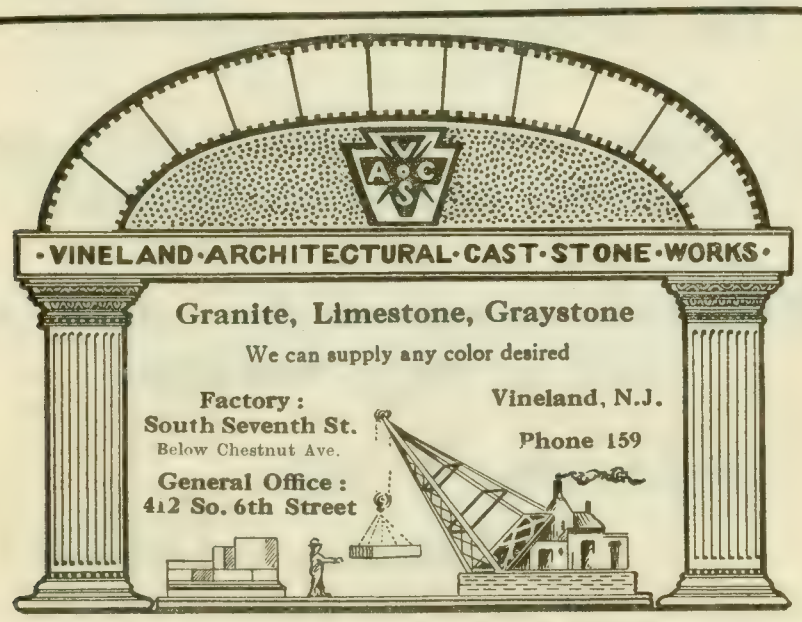
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BUILDERS' GUIDE

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As The Editor Sees It

ADVANTAGES OF BETTER PLASTERING FOR APARTMENT BUILDINGS

A thought which will be given much consideration in the next few years is that pertaining to the means by which resale value of apartments, buildings and homes can be maintained, according to the "American Builder." True, there are sporadic instances where builders have given thought to this problem, but the turnover of improved property has been so rapid that the need for upkeep has not often asserted itself forcibv. In other words, the general thought has been that if a man ordered an apartment house constructed, he must sell it quickly before any question arose as to whether its condition affected its resale value. Thus, the plumbing fixtures, the lighting fixtures, the wall decorations and other items subject to upkeep would be practically new when resold and it would not be necessary for the builder to study this problem to any extent.

Conditions in the realty field today have operated to alter conditions considerably. Large numbers of new apartment buildings have been erected throughout the country; some localities have been well-nigh overbuilt with the result that the renter has more opportunity to pick and choose. Magazines and newspaper advertising have educated him in the niceties of better appointed apartments, with the result that For Rent signs bespeckle many an apartment building which was in its hey-day only three or four years since. Obsolescence has entered very largely into the problem of the apartment house. No longer is the building judged only by its outward appearance. Among the accoutrements of the well-appointed apartment which have done much to affect resale value of this type of structure is plumbing. The development of the buyer's interest has resulted in a demand for plumbing fixtures of the type which a few years past were used only in the very highest type of residential construction. The renter in the modern apartment demands the very best in bathroom equipment and one of the first things he notes, especially in older buildings, is the quality of the plumbing.

Lighting fixtures also catch the eye quickly. A few years ago large inverted bowls for either direct or semi-direct lighting were then considered the last word in illumination. Now these have been largely replaced by wall brackets occasionally supplemented by ornate candelbra, and individual floor and table lamps. For these the public has been educated to look for numerous convenience outlets, also necessary for electric housecleaning devices. The "period" of the house is thus often determined by a glance at the type of lighting equipment provided.

The style of wood trim used also denotes the generation in which the building was built. Twenty years ago the most intricate moldings were used around windows and door openings and for picture molding. Passe now are the old time familiar plate rails with which every dining room was adorned.

But even ancient plumbing and lighting fixtures might be overlooked if kept in good shape although often replaced by those of present-day design. This, it has been quite feasible to do on account of the relative ease by which such modernization could be affected. Not so, however with cracked and discolored plaster on walls and ceilings. As a breeding place for vermin unsightly cracks are a distinct deterrent to the prospective renter. To her, they suggest that poor, cheap, shoddy

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construction was used and she will probably make a mental note to the effect that in a very short time the customary streaking of the ceiling will reappear. She also probably reflects that if interior materials were used on the walls and ceilings that other drawbacks such as noisy rooms because of poor sound deadening, poorly fitting doors and windows and other common ailments of cheap construction are also present.

And so our prospective tenant shops around until she finds a new apartment where disfiguring plaster cracks and streaks have not yet had a chance to exhibit themselves, and the owner of the older building must exert himself so much more diligently, possibly offer substantial rent concessions to attract tenants who will overlook the faulty workmanship and material, which were built into the building. A ten per cent vacancy is usually considered about the average in apartments, but if the building has been built as described, the vacancies may run as high as twenty per cent under the conditions which now obtain in many cities. In other words, the newer buildings instead of having a ten per cent vacancy, have perhaps a two or three per cent, while the older buildings in which shoddy construction was permitted, bring the average up to ten per cent by having an exceptionally large percentage of unoccupied apartments.

Such a condition makes insecure the investment of owners in apartment house property and is even apt to be reflected in the market value of bonds issued for their construction. The question then arises, how much additional will be the actual cost of using Better Plastering so that obsolescence and depreciation can be largely averted and thus maintain the rentability of apartments and insure the safety of the investment in the building.

Statistics compiled from reliable and authoritative sources throughout the country, indicate that it costs somewhat more to apply plaster on metal lath than it does on ordinary lath. This difference arises because plastering on metal lath is usually three-coat work, while plastering on ordinary lath is in most cases two-coat work. In general, more plaster is used to cover metal lath than is used on wood lath. This follows because the open mesh in the metal lath permits the plaster to squeeze through so as to imbed the lath and place it in its logical position in the plaster slab, viz., about midway between the front and back surfaces, and to provide a substantial key to prevent falling plaster. A full thickness of plaster on metal lath insures rigidity and prevents plaster cracks, and this advantage is passed on to the owner.

Against this, there is the common practice of applying wood lath so closely together that there is practically no opportunity for the plaster to form an adequate key. This enables the plasterer to "skin" the job as he can cover the surface with a minimum of plaster and with a minimum of keys. Naturally, such a procedure weakens the bond of the plaster to the lath and when placed so close together there is a marked tendency for the lath to swell and crack off the key. This then leaves merely a surface bond between the wood lath and the plaster, which is subject to disintegration and plaster cracks. On the other hand, first class wood lath if placed at least three-eights of an inch apart as specified by reliable architects and plastering contractors, permits the plasterer to fill up the joints and make a satisfactory key which will insure relative freedom from plaster cracks. When done carefully, the difference in cost between wood lath and metal lath is reduced substantially.

Even with a full thickness of plaster and adequate keys on wood lath, there is still the ever-present possibility of streaking. This is caused by the great difference in the conductivity of the wide strips of lath and the narrow strips of plaster between them. Experiments have shown that with a cold attic or circulation be-

(Continued on page 335)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Theatre, Stores and Apartments, Hunting Park avenue and Eighteenth street. Architect, not selected. Owner, Isaac S. Grossman, Land Title Building, Philadelphia. Work contemplated.

Apartment House, North side Pine street, between Forty-seventh and Forty-eighth streets, Philadelphia. Architect, Ralph Bencker, Bellvue Court Building, Philadelphia. Owner, Clarence Siegel, Garden Court Apartments, Philadelphia. Brick, concrete, steel, number of stories not decided. Preliminary plans in progress.

Residences (200), Dorrell street, between Sixty-fifth and Sixty-eighth streets, Philadelphia. Architect, private plans. Owners, Gillingham & Hynes, Sixty-sixth and Dicks avenue, Philadelphia. Brick, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light. Work contemplated.

Building (alts.), 220 South Broad street, Philadelphia. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Art Club of Philadelphia, 220 South Broad street, Philadelphia. Plans completed. Ready for bids in one week.

Store (alts.), Northwest Corner Fifth and Market streets, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owners, Central Jobbing Co., Fifth and Market streets, Philadelphia. General alterations. Plans in progress.

Residence and Garage, Chestnut Hill, Pa. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owner, Jacob S. Disston, Chestnut Hill, Pa. Stone, 2½ stories, 35x85 feet, hot water heat, electric light, slate roof, hardwood floors, tile work. Architect will be ready for sub-bids in one week.

Stores (3) and Hall Building, Northwest Corner Germantown avenue and Jefferson street. Architect, private plans. Owner, Joseph Sidewater, 1504 Locust street, Philadelphia. Brick, steel, 2 stories and basement, 42x46 feet, slag roof, pine floors, hot water heat, oil burning, electric light, metal lath, metal bulks, ornamental iron work. Owner taking sub-bids due as soon as possible.

Residences (44), Comley and Tackawanna streets, Philadelphia. Architect, private plans. Owner, John B. Connor, 602 East Indiana avenue, Philadelphia. Brick, 2 stories and basement, 16x35 feet, slag roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Owner ready for sub-bids.

Alterations and Additions to Schools: Russell Conwell School, Newton School, Thirty-eighth and Spruce streets, Emlen School, Chew and Upsal streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Demolition, reinforced concrete work, concrete floors, structural steel, safety treads, brick work, cut stone, granite, iron work, composition roof, metal ceilings, metal lath, marble work, plastering, painting and glazing, hollow tile work (Newton School). Owners taking bids due June 1st at 11 A. M.

School (alts.), Torresdale and Cottman, Tacony, Philadelphia. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, St. Hubert's Roman Catholic Church, Rev. J. Ludwig, on premises. Bond, carpentry and mill work, plastering, painting and glazing, hardware, metal ceilings, sheet metal work, hollow metal doors, plastering, cement work (heating, plumbing, electric and gas range reserved). Architect taking bids due May 28th, 3 P. M. sharp.

Indoor Stadium and Gym, Thirty-fourth and Spruce streets, Philadelphia. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, University of Pennsylvania, Thiity-fourth and Spruce streets, Philadelphia. Reitforced coacrete, cut stone, steel, 1 and 2 stories anh basement, 344x277 feet (seating, electric ann ventilating, lift reservei), gypsum tlab and slag roof, cement, tile, marble and terrazzo floors, metal lats, saw-tooth skylights, steel and kalamein dters, metal weather strip, shoring, membrane waterproofing, limestone, concrete piles, bluestone, cut cast stone, metal toilet cubicles, rolling steel shutters, soapstone, sani-onynx, linoleum floors, safety tread tiles, monitor steel sash, painting and glazing, hardware, plumbing, wrought iron pipe. Architects taking bids due June 1st.

Residence and Garage, Woodbine avenue near Montgomery avenue, Philadelphia. Architect, Alexander Mackie Adams, 1012 Walnut street, Philadelphia. Owner, John F. Jacoby, 2025 Market street, Philadelphia. Stone, 2½ stories and basement, 64x35 feet, wing 24x24 feet (plumbing, heating, electric, marble and tile work reserved), variegated slate roof, electric, oak, pine and composition floors, metal lath, metal weather strip, ornamental iron work, flagstone, steel casement sash, linoleum floors. Architect taking revised bids.

Store and Office, Southeast Corner Fifth and Tabor road, Philadelphia. Architect, Robert M. Reeves, 5539 North Third street, Philadelphia. Owner, Dr. William Roper, on premises. Brick, concrete, 2 stories and basement, 42x76x100 feet (plumbing, heating reserved), slag roof, cement floors, electric light, tile work, metal lath, galvanized iron skylights, metal ceilings, metal bulks, demolition, area gratings. Owner taking bids due June 1st.

Contract No. 124, Subway, Philadelphia. Architect, private plans. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Owners taking bids due June 16th at 11 A. M. (Standard Time). Certified check 5 per cent. of bid. Deposit, $50, refunded. Special track work, channel, etc.

United States Mint, Philadelphia. Architect, James A. Wetmore, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Owners taking bids due June 1st, 3 P. M., on wood block floor, terrazzo floors. Changes of conduits and wiring.

Construction of Sleeping Cabins, Camp Happy, Torresdale, Pa. Architect, private plans. Owners, Department of Public Works, Bureau of Recreation, 592 City Hall. Owners taking bids due May 27th at 11 A. M. (Standard Time). Certified check 5 per cent. of bid.

Residences (62), Sixty-fifth avenues and Bouvier street, Philadelphia, $314,000. Architect, private plans. Owner, George H. McCracken, 2528 West Lehigh avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Service Station, Southeast Corner Front and Rockland streets, $25,000. Architect, private plans. Owners, Gulf Refining Co., 1515 Locust street, Philadelphia. Brick, 1 story and basement, 13x13 feet, electric work, cement work. Permit granted.

Residences (2), 1323-25 Cottman street, Philadelphia, $5,000 each. Architect, private plans. Owner, Alec Roczkawskus, 601 Robbins avenue, Philadelphia. Brick, 2 stories, 15x42 feet, slag roof, hardwood and pine floors, electric lighting. Permit granted.

Factory (repairs), 1842-46 Germantown avenue, Philadelphia, $3,600. Architect, private plans. Owners, Richmond & Kemp, 1840 Germantown avenue, Philadelphia. General fire repairs. Permit granted.

Residences (20), East side Rockland street, North of St. Vincent street. Architect, private plans. Owners, Michael Stevens Laur Co., 7434 Oxford pike, Philadelphia. Brick, 2 stories, 15x23 feet, 12x12 feet, slag roof, hardwood and pine floors, electric light. Permit granted.

Storage Building, 2118-26 Elkhart street, Philadelphia, $13,000. Architect, private plans. Owner, M. Kunefsky, 2125 Ann street, Philadelphia. Brick, 1 story, 797x100 feet, slag roof, electric light. Permit granted.

Residences (2), 648 Manatawna avenue, Philadelphia. Architect, private plans. Owner, Reuben Bartle, 830 East Manatawna avenue, Philadelphia. Brick, 2 stories, 16 feet 8 inches x 48 feet, slag roof, hot water heating, electric lighting. Permit granted.

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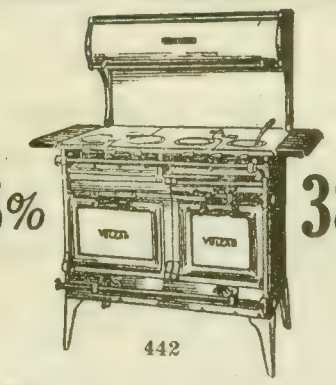
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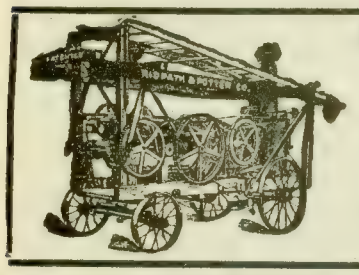


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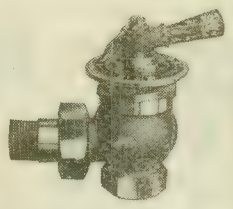


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Garage, Southwest Corner Germantown avenue and Apsley street, $26,000. Architect, private plans. Owner, Samuel Nissman, 5339 Berks street, Philadelphia. Brick, 1 story, 92x98 feet, slag roof, cement floors, electric light. Permit granted.

Residences (7), West side Memphis street, North of Montgomery avenue, $23,400 total. Architect, private plans. Owner, Samuel Knee, 135 South Forty-ninth street, Philadelphia. Brick, 2 stories, 16x27 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (28), West side Fayette street, South of Johnson street, Philadelphia, $121,800. Architect, private plans. Owner, B. L. Shapiro, 6433 North Broad street, Philadelphia. Brick, 2 stories, 16x29 feet, 13x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, 3620 Richmond street, Philadelphia, $5,000. Architect, private plans. Owner, Walter Rybas, 3620 Richmond street, Philadelphia. Brick, 2 stories, slag roof, hot water heat, electric light, pine floors. Permit granted.

Residences (2), 7413-15 Laundale street, Philadelphia, $5,000 each. Architect, private plans. Owner, Harry W. Schaubel, 7331 Claridge street, Philadelphia. Brick, 2 stories, 14x48 feet, slag roof, hot water heat, electric light, pine floors. Permit granted.

Residences (5), North side Fanshawe street, East of Bingham street, $4,500 each. Architect, private plans. Owner, Frank A. Adair, 1129 Fanshawe street, Philadelphia. Brick, 2 stories, 15x30 feet, 12x10 feet, slag roof, hot water heat, electric light, pine floors. Permit granted.

Warehouse, Southeast Corner Garden and Bridge streets, Philadelphia, $4,500. Architect, private plans. Owner, George A. Sinn, Inc., Bridge and Frankford avenue, Philadelphia. Steel, 1 story, 28x100 feet. Permit granted.

Residence, Northwest Corner Avalon and Legion streets, Philadelphia, $3,000. Architect, private plans. Owner, Frank Beader, Adams road, Olney, Philadelphia. Frame, 1 story, 27x36 feet, shingle roof, pine floors, electric work. Permit granted.

Storage, 4108-12 Haverford avenue, Philadelphia, $15,000. Owner, James Kershaw, 527 North Forty-first street, Philadelphia. Brick, 2 stories, 50x103 feet 6 inches, slag roof, electric work. Permit granted.

Residence, North side Stanwood street, West of Roosevelt Boulevard, $7,500. Architect, private plans. Owner, George Schubert, 4251 North Sixth street, Philadelphia. Brick, 2 stories, 29x37 feet, 26x9 feet, hardwood and pine floors, hot water heat, electric light. Permit granted.

Rectory (Alts.), Broad and Susquehanna Sts., Phila. Architect, Paul Monaghan, 1713 Sansom St., Phila. Owner, Our Lady of Mercy, Rt. Rev. J. A. Whitaker, on premises. Work contemplated, sketches being prepared.

Residence, Orchard Way, N. E., County Line, Rosemont, Pa. $30,000. Owner, David Baker, Swarthmore, Pa., and 1011 Chestnut St., Phila. Work contemplated.

Store (Alts.), 113 Chestnut St., Phila. Architect, Frank E. Hahn, 7th and Chestnut Sts., Phila. Owner, Forbes, 115 Chestnut St., Phila. Interior alterations. Plans in progress, ready for bids in one week.

Bridge Superstructure, Phila. Owner, Penna. R. R. Pur. Agt., Montg. Smith, N. W. Cor. 17th and Filbert Sts. Girder span and Structural metal work, for bridges. Owner taking bids due June 4th.

Store and Apartment (Alts. and Add.), 2214 Walnut St., Phila. Architect, Frank E. Hahn, 7th and Chestnut Sts., Phila. Owner, Charles K. Fein, 916 Pine St., Phila. General alterations. Plans in progress, ready for bids in a wek.

Miscellaneous Work, Phila. Owner, Dept. of Public Work, Bureau of Water, 216 City Hall. Owner taking bids due June 8th, 11 A. M. (S. T.) Furnish and install pumps and piping, Torresdale High Service Station. Substructure of Belmont Mechanical Filters. Electric pumping and auxiliary equipment, Queen Lane Pumping Station Furnish and railroad siding, Lardner's Pt. Pumping Station. Furnish and lay 12-inch pipe in Chestnut Hill. Certified check, 5½ of bid. Inquire Room 788.

Construction and Delivery of Refuge Incinerator, 51st St. and Grays Ave. , Owner, Bureau of Street Cleaning, City Hall. Owner taking bids due May 27th 11 A. M. (S. T.) Certified check 5½. Installation of heating plant—blower system in shop N. E. Cor. 25th SSt., and Oakford Ave., Phila.

Residences, E. side Rowland St., N. of Welsh Road, $3,000. Architect, private plans. Owner, Leonard W. Allen, 1416 Imogene St., Phila. Brick, 2 stories, 16x29 feet, 11x10 feet, pine floors, hot water heat, Eelectric light. Permit granted.

Shop, 2902-04-06 W. Fletcher St., Phila., $2,500. Achitect, private plans. Owner, Albert Kaercher, on premises. Brick, 1 story, 54x42 feet, slag roof, electric lighting. Permit granted.

Apartment House (add. and alta.), 3237 N. 17th St., Phila., $2,000. Architect, private plans. Owner, Antonio Martino, 3237 N. 17th St., Phila. Brick, 2 stories, addition, 13-6 inches x 19 feet, general alterations. Permit granted.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

City Hall Annex, Juniper and Filbert streets, Philadelphia. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Works, Bureau of City Property, City Hall. Brick, steel, limestone, 15 stories and basement, 246x100 feet (plumbing, heating and electric separate), slag roof, cement floors, elevators, metal lath, tile, marble and terrazzo work, rolled steel sash, fire, kalamein and hollow metal doors, iron stairs, ornamental iron work, shoring, waterproofing and dampproofing, architectural terra cotta. Contract awarded George S. Fuller, Morris Building, Philadelphia, $1,905,000. Plumbing, N. Connolly, 1404 North Eighteenth street, Philadelphia, $51,402. Heating and mechanical, N. Connolly, 1404 North Eighteenth street, Philadelphia, $179,880. Electric not awarded.

Sub-Station, 52-54 North Sixth street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., W. C. L. Eglin, Tenth and Chestnut streets. Brick, reinforced concrete, cut stone, steel, 1 story, balcony and basement, 99x50 feet, slag roof, cement floors, steam heat, metal lath, rolled steel sash and skylights, bond, ornamental iron work, demolition. Contract awarded F. M. Harris Co., 1520 Parrish street, Philadelphia.

Residence and Garage, East side Twelfth street, North of Sixty-fifth Ave., Oak Lane, Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owner, Leo E. Weiss, 5123 North Eleventh street, Philadelphia. Brick, cinder block, stucco, steel, 2½ stories and basement, 70x27 feet, garage, 18x18 feet, asbestos shingle roof, oak and pine floors, electric light, metal lath, tile work, bond, ornamental iron, flagstone. Contract awarded H. J. Ryle, North Wales, Pa.

Rooming House, Northeast Corner Thirteenth and Kater streets, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Charles Lorber, 705 Chestnut street, Philadelphia. Brick, 2 stories, 44x170 feet, slag roof, pine floors, steam heat, electric light. Contract awarded to Joseph Kirschbaum, 725 Cherry street, Philadelphia.

Show Room and Garage, 24-28 South Sixty-second street, Philadelphia, $26,500. Architect, John Swartley, 5609 Pine street, Philadelphia. Owners, Travis & McGarrity, 630 South Sixty-second street, Philadelphia. Brick, steel, 1 story, 50x100 feet, slag roof, cement floors, ornamental iron work. Contract awarded Edwin V. Holland, 124 South Fiftieth street, Philadelphia.

Stores and Apartments (4), Northwest Corner Bainbridge and Leithgow streets. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, J. Goldstein, care of architect. Brick, 3 stories, 17x51 feet, slag roof and tin roof, pine floors, hot water heat, electric light, tile work, metal bulks, metal ceiling, plate glass. Contract awarded Harry Alterman, 2731 West Somerset street, Philadelphia.

Toilet Building, Sesqui Grounds, Philadelphia. Architect, private plans. Owners, Sesqui-Centennial Association, R. J. Pearse, Broad and Oregon avenue. Metal lath, stucco, 1 story, 30x40 feet, rubberoid roof, cement floors. Contract awarded Conneen Const. Co., 2315 Walnut street, Philadelphia.

Convent, Forty-seventh and Windsor avenue, Philadelphia. Architects, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, St. Francis de Sales' Parish, Rt. Rev. M. J. Crane, on premises. Brick, cut stone, steel, reinforced concrete, granite, 3 stories and basement, 69x80 feet, slag and tile roof, composition floors, electric light, metal lath, tile and marble work, hollow metal doors, bond, ornamental iron work, plumbing, demolition, incinerators, dumb waiters. Contract awarded John McShain, Inc., 1713 Sansom street, Philadelphia.

Hospital (add.), West side Thirty-ninth street, North of Filbert street, $37,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Presbyterian Hospital, on premises. Brick, 3 stories, 28x44 feet. Contract awarded to Armstrong & Latta, 1926 Sansom street, Philadelphia.

Ohio Building, Sesqui Grounds, Philadelphia, $8,000. Architect, Ray Sims, 55 East State street, Columbus, Ohio. Owners, State of Ohio, Columbus, Ohio. Metal lath, brick, stucco, 2 stories and basement, 106x45 feet, slag roof, pine floors, electric light, tile work. Contract awarded to D. B. Hussey, 16 East Broad street, Columbus, Ohio.

Residence and Store (17), South side Baltimore avenue, West of Forty-seventh street, $110,500. Architect, private plans. Owner, Albert Aiken, Forty-seventh and Baltimore avenue, Philadelphia. Brick, 3 stories, 16x38 feet, 12x18 feet, slag roof, hardwood and pine floors, electric light. Contract awarded to A. Brown, 145 Fairmount avenue, Philadelphia.

Residence, Southeast Corner Chestnut avenue and Towanda street, $40,000. Owner, Jacob S. Disston, on premises. Stone, 2 stories,

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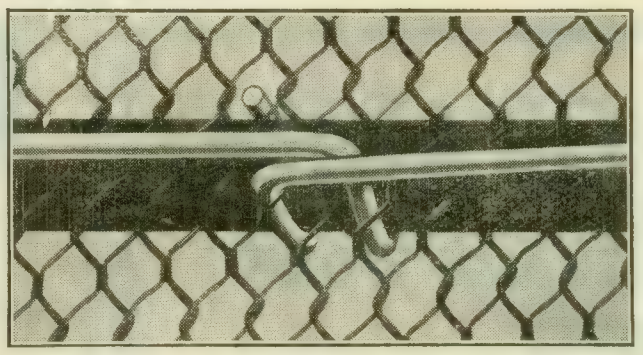
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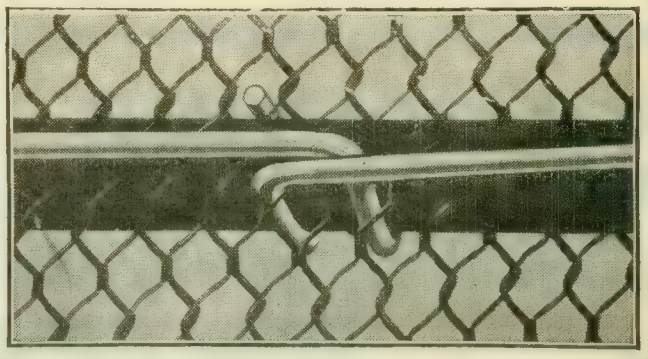
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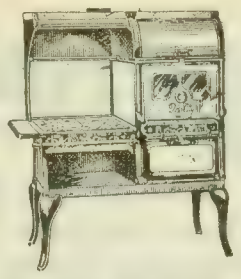


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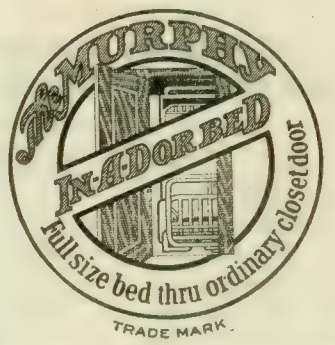
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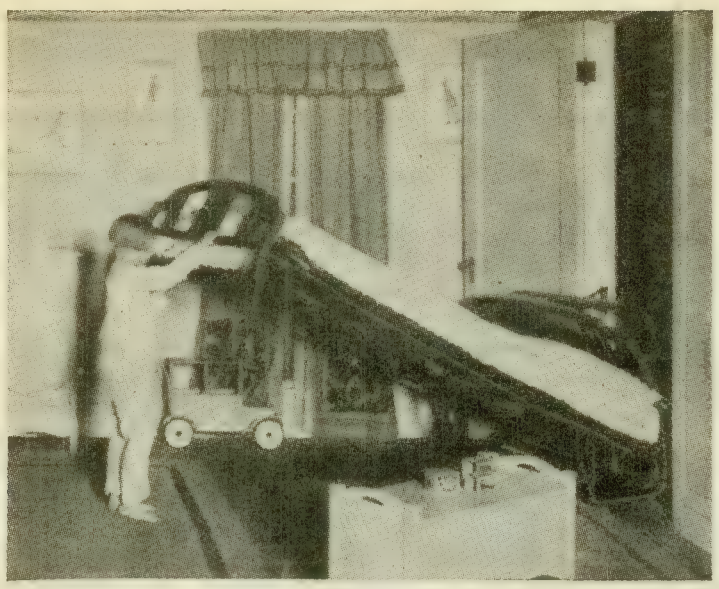
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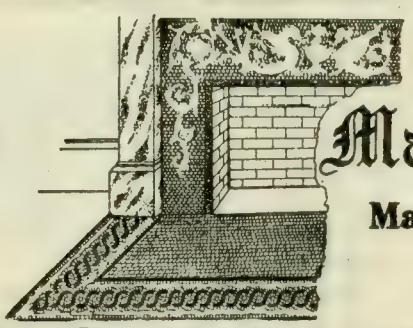


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Sesqui Amusement Building, West side Broad, South of Pattison avenue, $7,000. Architect, private plans. Owner, Edward V. Dougherty, Media, Pa. Frame, 1 story, 46x80 feet. Contract awarded to Richard F. Lusse, 4934 North Fourth street, Philadelphia.

Store and Storage (alts.), 5717 Germantown avenue, Philadelphia, $7,000. Architect, private plans. Owner, F. W. Kaplan, 5717 Germantown avenue, Philadelphia. General alterations. Contract awarded to John Roman, 414 Bringhurst street, Philadelphia.

Residence, West side Byberry road, South of Academy road, $6,000. Architect, private plans. Owner, W. L. Brown, 1014 West Ontario street, Philadelphia. Frame, 2 stories, 32x38 feet, 12x7 feet, shingle roof. Contract awarded to John L. Kramer, 612 West Cambria street.

Residences and Stores (2), North side Hoffnagle street, West of E street, $24,500. Architect, private plans. Owner, J. A. Bacher, 7862 Oxford street, Philadelphia. Brick, 2 stories, 20x60 feet 10 inches, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to H. W. Myers, 638 Solly street, Philadelphia.

Residence, Northwest Corner Roosevelt Boulevard and Hellerman street, $22,000. Architect, private plans. Owner, Chester Haigh, 4512 North Tenth street, Philadelphia. Stone, 3 stories, 32x39 feet, 23x8 feet, slate roof, hardwood and pine floors, electric light, tile work. Contract awarded to Chancellor Day, 2644 Rhawn street, Philadelphia.

Apartment House (alts.), Northeast Corner Seville and Mitchell streets, $5,000. Architect, private plans. Owner, William Kittinger, 448 Seville street, Philadelphia. General alterations. Contract awarded to William McCauley, 4319 Terrace street, Philadelphia.

Apartment House (alts.), 500-02 North Eighteenth street, Philadelphia, $4,500. Architect, private plans. Owner, Joseph J. Judowich, 3300 Baring street, Philadelphia. General alterations. Contract awarded to Barnett & Co., 519 Pennsylvania Building, Philadelphia.

Residence (add.), 110 South Twentieth street, Philadelphia, $3,000. Architect, private plans. Owner, Dr. T. Green Miller, 110 South Twentieth street, Philadelphia. Brick, 1 story, 10x8 feet. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Office and Storage, 1604 East Passyunk avenue, Philadelphia, $3,000. Architect, private plans. Owner, W. V. Edkin, 1439 Ritner street, Philadelphia. Brick, 2 stories, 17x10 feet. Contract awarded to John Erbman, 1908 Tasker street, Philadelphia.

Store and Residence (add.), Northwest Corner Sixtieth and Larchwood avenue. Architect, Nat Blum, 858 South Fifty-fifth street, Philadelphia. Owner, T. Dash, Northwest Corner Sixtieth and Larchwood avenue, Philadelphia. Brick addition. Contract awarded to S. Yadofsky, 2023 South Eighth street, Philadelphia.

Boiler House, North side Wingohocking street, West of Adams avenue, $13,500. Architect, private plans. Owners, Tremont Realty Co., Adams street and Powder Mill road. Brick, 1 story, 52x45 feet. Contract awarded to H. D. Best Co., 949 Broadway, New York.

Store (add.), 423 South street, Philadelphia, $11,000. Architect, private plans. Owner, William Levin, 423 South street, Philadelphia. Brick, 2 stories add., 20x40 feet, slag roof, pine floors, electric work. Contract awarded to H. F. Brown, 6100 Ridge avenue, Philadelphia.

Garage, 600 East Chelten avenue, Philadelphia, $3,390. Architect, private plans. Owner, Dr. W. L. Clark, on premises. Stone, 1 story, 30x24 feet, cement floors, electric light. Contract awarded to William C. Wright & Son, 32 Harvey street, Philadelphia.

Sesqui Tea Room, West side Broad street, South of Pattison, $8,000. Owner, Otokichi Tsuhi, 5985 Drexel road, Philadelphia. Frame, 1 story, 68x42 feet. Contract awarded to Wharton Green & Co., Inc., 37 West Sixty-ninth street, New York.

Residence, South side Vernon road, East of Louden street, Philadelphia, $7,000. Architect, private plans. Owner, H. Ewing, 257 West Duval street, Philadelphia. Brick, 2 stories, 24x26 feet, hardwood and pine floors, electric work. Contract awarded to Carberry & Carberry, Adams avenue, Philadelphia.

Residences (2), West side Pearce street, North of Orthodox street, $4,500 each. Architect, private plans. Owner, Joseph Knpczak, 4730 Melrose street, Philadelphia. Brick, 2 stories, 20x49 feet, slag roof, pine floors, electric work. Contract awarded to Felix Tatko, 5103 Edmund street, Philadelphia.

Residences (2), West side Alicia street, North of Hoffnagle street, $3,500 each. Architect, private plans. Owner, J. A. Bacher, 7862 Oxford avenue, Philadelphia. Brick, 2 stories, 16x26 feet, 16x8 feet, slag roof, pine floors. Contract awarded to H. N. Myers, 638 Solly avenue, Philadelphia.

Garage, Southeast Corner Wallace and Pallas streets, Philadelphia, $2,975. Architect, private plans. Owner, Mrs. L. M. Lewis, 624 North Forty-third street, Philadelphia. Brick, 1 story, 17x60 feet, slag roof, cement floors, electric work. Contract awarded to Warren E. Biscoe, 3946 Baring street, Philadelphia.

Residence (alts, and add.), 5032 Spruce street, Philadelphia, $5,000. Architect, private plans. Owner, A. M. Stoven, 5032 Spruce street, Philadelphia. Brick, 3 stories add., 12x8 feet, general alterations. Contract awarded to J. H. Hutt, 5919 Spruce street, Philadelphia.

Residence and Store (add. and alts.), 5538 North Fifth street, $5,000. Architect, private plans. Owner, Joseph B. Morrow, on premises. Brick, 2 stories add., 15x14 feet, general alterations. Contract awarded to Frank H. Fitt, 5753 North Fifth street, Philadelphia.

Residence and Store (alts.), 1028 Montgomery avenue, $3,000. Architect, private plans. Owner, Max Pravitz, 1018 Columbia avenue, Philadelphia. General alterations. Contract awarded to Max Gold, 1031 Wolf street, Philadelphia.

Building (Alts. to Office Bldg.), N. W. Cor. 17th and Sansom Sts., Phila. $6,000. Architect, W. F. B. Roelle, Ois Bldg., Phila. Owner, J. D. Winchell, on premises. Plastering, eletric work, stair work, heating, alterations, painting, cut stone, carpentry, millwork, oak floors. Contrac awarded to T. S. Feter, 1829 Filbert St., Phila.

Garage (Add.), E. side Chow St., N. of Chelten Ave. $3,500. Architect. private plans. Owners, Lekheid & Parker, on premises. Brick, 1 story add ition, 50x100, cement floors, electric work. Contarct awarded to H. Brocklehurst, 512 W. Morris St., Phila.

Residences and Stores (Alts.), N. W. Cor. Cumberland and Sepviva Sts., Phila. $3,500. Architect, private plans. Owner, Wm. Armstrong, on premises. General alterations. Contract awarded to W. F. Lotz, Oxford Bank &Trust Bldg., Phila.

Shop and Office Building (Alts.), 425-27 Lehigh Avenue, Phila. Architect, The Ballinger Co., 12th and Chestnut Sts., Phila. Owner, Herman Goldner, on premises. Brick,

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hollow tile, ornamental terra cotta, plan & reinforced concrete, cement work, tin clad fire doors, elevator doors, rolling steel shutters, miscellaneous iron and steel work, carpentry and millwork, hardware, metal lath, plastic, marble and tile work, painting and glazing, shoring, bond, slag roof, rolled steel skylights, steel sash, metal store front, maple floors. (Plumbing, heating, electric and elevators reserved.) Contract awarded P. Haibach Const. Co., 1261 N. 26th St., Phila.

Laundry and Garage, S. W. Cor. 55th and Sansom Sts., Phila. Architect, Clarence Wunder, 1520 Locust St., Phila. Owner, Security Bank Note Co., 223 Chestnut St., Phila. Brick, 1 story, 47x47 feet, 22x19 feet, slag roof, cement floors, rolled steel sash. Contract awrded Fred A. Havens Co., 845 N. 19th St., Phila.

Pennsylvania Construction News

Vocational High School, Schwenksville, Pa., $100,000. Architect, Watson K. Philips, 213 South Fifth street, Philadelphia. Owners, School Districts of Schwenksville, Lower Frederick and Perkiomen Townships, Rev. N. F. Schmidt, Schwenksville. Sketches drawn. Preliminary plans in progress.

Theatre, Pottsville, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Chamberlain Amusement Co., Pottsville, Pa. Brick, steel, reinforced concrete, hollow tile, steam heat, electric. Preliminary plans in progress.

Theatre, East Tamaqua, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Wilmer & Vincent, Easton, Pa. Brick, steel, terra cotta. Preliminary plans in progress.

Club House, Wayne, Pa. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owners, St. David's Golf Club, J. M. Wilcox, care of Philadelphia Saving Society, Seventh and Walnut streets, Philadelphia. Stone, hollow tile and stucco, 1 and 2 stories. Plans in progress, will mature in one year.

Store and Apartment, Montgomery avenue and Penn street, Wynnewood, Pa. **Stores and Apartment (2 pair),** Montgomery avenue, East of Penn street. Architect, Henry L. Reinhold, 1513 Walnut street, Philadelphia. Owner, Thomas J. Minnick, Wynnewood, Pa. Stone, half timber. Plans drawn.

School Building, Sixty-eighth and City Line, Overbrook, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Friends' Central School, Barclay Jones, Overbrook, Pa. Stone, 2½ stories. Details undecided. Plans in progress.

Residences (1400), near Chester, Pa. Architect, not selected. Owners, Mastbaum Brothers & Fleisher, Alex. Leiberman, 211 South Fifteenth street, Philadelphia. Brick, 2 stories. Work contemplated. Too early for details.

Residences (150), Yeadon, Delaware County, Pa. Architect, private plans. Owners, Shapiro & Reed, Fifty-seventh and Pentridge streets, Philadelphia. Plans in progress. Too early for details. Ready for bids in two months.

Church (alts.) and Sunday School, Hershey, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Holy Trinity Lutheran Church, Rev. P. Kinports, Hershey. Stone. Plans in progress.

Church, Emaus, Pa. Architect, H. A. Stetler, Stetler Building, Wyomissing, Pa. Owners, Emaus Moravian Church, P. T. Shultz, Emaus, Pa. Stone, stucco, 1 story, 42x41 feet. Plans in progress.

Community Center, Ninth and Bengaman streets, Reading, Pa. Architect, George D. Sell, 760 North Thirteenth street, Reading, Pa. Owners, St. Casimir's Society, F. Wiziewski, Reading, Pa. Brick, 2 stories and basement, 90x60 feet. Plans in progress.

School, Dallastown, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owners, care of Father Magee, Dallastown, Pa. Brick, 2 stories, electric work. Plans in progress.

School, Elizabethville, Pa. Architects, Hasness & Albright, 213 Walnut street, Harrisburg, Pa. Owners, Elizabethville Borough School Board, S. H. Knisely, Elizabethville, Pa. Brick, 2 stories, 66x76 feet, slag roof. Plans in progress.

Assembly Hall (alts. and add.), Bustleton, Pa., $12,000. Architect, C. H. Fries, Drexel Building, Philadelphia. Owners, St. Luke's Episcopal Church, Rev. Paul Micou, Bustleton, Pa. Stone, 16x20 feet, 10x30 feet, hot water heat, electric light, tile work, wood shingle roof, maple floors. Plans in progress.

Church, Catasauqua, Pa., $100,000. Architect, Robert M. Reeve, 5539 North Third street, Philadelphia. Owners, St. Mary's Roman Catholic Church, Rev. John Seimetz, Catasauqua, Pa. Brick, steel, 1 story and basement, 58x100 feet, slate roof, wood floors, hot water heat, electric light, demolition. Leo S. Supper, 5619 North Second street, Olney, taking sub-bids.

Church, Duncannon, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Calvary Presbyterian Church, R. N. Barton, president, Building Committee, Duncannon, Pa. Architects selected.

Junior High School, Mansfield, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Mansfield School Board, care of architects. Fireproof. Preliminary plans in progress.

Church, Enhaut, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Bethel Church of God, Rev. C. O. Houston, Enhaut, Pa. Brick. Plans in progress.

Church (add. and alts.), Wisconisco, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Calvary Evangelical Church, Rev. E. V. Sunday, Wisconisco. Brick. Plans in progress.

Store and Apartments, Second and Liberty streets, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, Mr. George Hill, care of architect. Brick, steel, fireproof, 3 stories, 30x200 feet, slag roof, hardwood and composition floors, city heat, electric light, tile work, steel sash. Plans in progress.

Stores and Apartments (12), Second street, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, Wolfe Shope, care of architect. Architectural terra cotta, brick, steel, 3 stories, 35x75 feet, slag roof, hardwood floors, hollow tile, city heat, electric light, metal lath, plate glass, bronze work. Plans in progress.

Machine Shop, Eddystone, Pa. Architect, private plans. Owners, Baldwin Locomotive Works, care of Bernard Converse, Broad and Spring Garden streets, Philadelphia. Hollow tile and steel. Details undecided. Plans in progress. Owners will sub-let.

Parochial School and Residence, Olyphant, Pa. Architect, Lester Davis, Rehrig Building, Scranton, Pa. Owners, St. Cyril and Methodius Roman Catholic Church, care of Rev. Michael Guryansky, 135 River street, Olyphant, Pa. School, brick, stone, terra cotta, 2 stories, 50x150 feet, residence, 2½ stories, brick, 28x30 feet. Plans in progress. Architect will be ready for bids about June 15th.

Residence (add.), Bethayres, Pa. Architects, T. B. Lippincott and C. F. Schaef, 11 South Sixteenth street, Philadelphia. Owner, Walter MacFarland, Bethayres, Pa. Building block, stucco, 2½ stories, 32x60 feet, slate

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roof, pine and cement and linoleum floors, electric light, extension to heat, tile and marble work, general alterations to the present building. Plans completed. Architects ready for bids in a few days.

Stores (3) and Apartments, Llanerch Hills, Upper Darby, Pa. Architectural engineer, M. M. Boonin, 17 South Seventeenth street, Philadelphia. Owner, Julius Berman, 6019 Market street, Philadelphia. Brick, 2 stories, (1) 18x57 feet, (2) 16x57 feet, slag roof, pine and oak floors, hot water heat, electric light, tile baths, metal bulks. Owner taking sub-bids due as soon as possible.

Club House (add.), Bethayres, Pa., $300,000. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Philmont Country Club, Ellis Gimbel, president, on premises. Brick, hollow tile, stucco. Plans about completed. Architects will take bids in a week.

Residence, Lancaster avenue, Indian Creek road, Overbrook, Pa., $40,000. Architect, private plans. Owner, Daniel Hogan, 6044 Columbia avenue, Philadelphia. Brick, stone, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Owner will build.

Cottage, Muncy, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Industrial Home for Women, Muncy, Pa. Stone, 3 stories, 111x33 feet, 50x20 feet. Architect taking bids due June 10th.

Residence and Garage, Devon, Pa. Architects, Tilden & Register, 1520 Locust street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 30x160 feet, shingle or slate roof, hardwood floors, vapor heat, electric light, tile and marble work. Plans in progress. Architects will take bids in one week.

School, Auditorium and Chapel, Steelton, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, St. James' Roman Catholic Church, Rev. J. C. Thompson, Steelton, Pa. Brick, steel, 2 stories, 107x35 feet, 50x80 feet, composition slate roof, maple floors, hollow tile, roof ventilators, skylights, steel sash, metal lath, vapor heat, electric light. Architect ready for bids.

Sunday School and Parsonage, Scranton, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Peter's Lutheran Church, Rev. B. Bohrer, Scranton, Pa. Stone, 2 stories, 50x32 feet, slate roof, hardwood floors, waterproofing, ornamental iron, tile work, vapor heat, electric light. Owners ready for revised bids.

Auditorium and Gymnasium, Annville, Pa. Architects, Scholl & Richardson, Fifth and Walnut streets, Reading, Pa. Owners, Annville School District, E. B. Marshall, Annville, Pa. Stone, steel, 2 stories, 150x80 feet, slate roof, concrete floors, hollow tile, roof ventilators, electric light, metal lath. Owners ready for bids.

Residence and Garage, Park Hill, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, A. J. Stief, care of architect. Brick, 2 stories, 32x52 feet, 20x22 feet, slate roof, hardwood and concrete floors, hot water heat, electric light, tile work. Architect ready for bids.

Twin Residences (8), Roberts and Anderson avenues, Drexel Hill, $6,000 each. Architect, private plans. Owner, name withheld. Stone, brick, frame, 2½ stories, size irregular, electric light, carpentry and mill work, hardwood floors. General contractor, G. P. Gehring, Real Estate Trust Building, taking sub-bids due as soon as possible.

Residence and Garage, Bryn Mawr, Pa. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Michael Talone, Lancaster avenue, Rosemont, Pa. Brick, 2½ stories, 25x40 feet, hardwood floors, hot water heat, electric light, tile work. Owner taking bids.

Residence and Garage, Ardmore, Pa. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Michael Talone, Lancaster avenue, Rosemont, Pa. Brick, 2½ stories, 30x40 feet, hot water heat, electric light, tile work, hardwood floors. Owner taking bids.

High School, Northampton, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Northampton School Board, care of architect. Brick, steel, 2 stories, 115x200 feet, composition roof, composition and hardwood floors, safety treads, roof ventilators, iron stairs, skylights (heating, plumbing and electric separate). Architect about ready for bids due June 5th.

Firehouse (alts. and add.), Sixth and Calder streets, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Reading, Pa. Owners, Goodwill Fire Co., I. H. Doutrich, on premises. Brick, 2 stories, 30x40 feet, slag roof, concrete floors, electric light. Owners taking bids due June 1st.

Church, Highland Park, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Calvary Presbyterian Church, Highland Park, Pa. Stone, 1½ stories and basement, steam heat, electric light, metal lath, slate roof, pine floors, kitchen equipment. Architect taking bids due June 1st.

Power Plant, Lewistown, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Viscos Co., Marcus Hook, Pa. Brick, steel, 1 story and basement, 60x90 feet, electric light, cement floors, rolled steel sash. Architects taking bids due June 1st.

Church and Sunday School, Enola, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Ownerfs, Zion Lutheran Church, Rev. M. S. Sharp, Enola, Pa. Brick, stone, steel, 2 and 1 stories, 115x55 feet, 39x45 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, ornamental iron work. Architect taking bids due May 28th.

School, Vera Cruz, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Upper Milford Township School Board, Andrew Heller, secretary, Emaus, Pa. Brick, steel, 2 stories, 40x90 feet, built-up roof, composition floors, roof ventilators, safety treads, hollow tile, bond, fire doors, rolled steel sash, metal lath (heating, plumbing, electric separate). Architects taking bids due June 5th.

Residence (alts. and add.), Washington lane, Jenkintown, Pa. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, John S. Newbold, on premises. Brick, stucco, 2½ stories and basement, 103x24 feet, wing 30x27 feet, shingle roof, oak and pine floors, metal lath, tile work, bond, ornamental iron work, flagstone, limestone. Architects taking bids due May 27th.

Residence, Church road, near Paper Mill road, Enfield, Pa. Architect, Arthur Brockie, 254 South Fifteenth street, Philadelphia. Owner, Mrs. J. B. Young, 6640 Wayne avenue, Philadelphia. Brick, frame, 2½ stories and basement, 42x30 feet, wing 25x19 feet, shingle roof, oak and pine floors, plumbing, hot water heat, electric light, tile work, ornamental iron work. Architect taking bids due May 27th.

Sales Room (alts.), 8-10-12 West Baltimore avenue, Lansdowne, Pa. Architect, P. S. Tyre, 114 South Fifteenth street, Philadelphia. Owners, Simons & Barrow, 10 West Baltimore avenue, Lansdowne, Pa. Brick, steel, limestone, cut cast stone, 2 stories, 80 feet 6 inches x 36 feet (plumbing, heating and electric reserved), slag roof, brick and cement and maple floors, safety treads, waterproofing, architectural terra cotta, metal lath, tile and marble work, hollow metal sash, fire doors, flush bulks, iron stairs, ornamental iron work, area gratings, ash hoist. Architect taking bids due June 1st.

School (alts.), Hall, Gymnasium and Auditorium, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, St. Mary's Roman Catholic Church, Rev. G. J. Breckel, 309 South George street, York, Pa. Brick, steel, 2 stories and basement, 118x56 feet, flat roof, cement and hardwood floors, hollow tile, roof ventilators, metal ceilings, electric light, tile and marble, steel sash. Architect will be ready for bids about June 1st.

Memorial Viaduct, State street, Harrisburg, Pa., $3,500,000. Architects, A. W. Brunner Associates, S. S. Ross, president, 101 Park avenue New York. Owners, State of Pennsylvania, Board of Commissioners of Public Grounds and Buildings, Harrisburg, Pa. Reinforced concrete, granite, limestone, 80x2697½ feet. Owners will advertise for bids June 1st, due July 1st.

Junior High School, Leola, Upper Leacock Township, Pa. Architect, H. L. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Upper Leacock Township School Board, care of architect. Brick, structural steel, 1 story and basement, 150x200 feet, slate and concrete floors, wood floors, concrete block, bond, fireproof doors, steel sash, metal lath (heating, plumbing, electric separate). Architect will be ready for bids next week.

Fraternity House, State College, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Phi Kappa Sigma Fraternity, R. Cummings, secretary, State College, Pa. Stone, 3 stories and loft, 120x100 feet, slate roof, hardwood floors, steam heat, electric light, tile and marble work, ornamental iron work. Architect ready for bids.

Residence, Arlingham, Pa. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Frame, stucco, 2 stories, 28x56 feet, slate roof, hardwood and cement floors, hot water heat, electric light, 2 tile

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Residence and Garage, Arlingham, Pa. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Frame, stone, stucco, 1½ stories, 37x43 feet, slate roof, hardwood floors, hot water heat, electric light. Plans completed. Architect taking sub-bids for owner.

School Building, Boothwyn, Pa. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owners, Upper Chichester Township, Board of Education, F. B. Albany, Boothwyn, Pa. Brick, 1 story and basement, 8 class rooms, slag roof, maple floors, steam heat, electric light. Plans in progress. Will be ready for bids about two weeks.

Glenside School, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Board of Education, O. B. Heim, secretary, Eighth and Washington streets, Reading, Pa. Brick, steel, cast stone, 2 stories and basement, 95x60 feet, 46x59 feet, slag roof, composition, cement and maple floors, hollow tile. Low bidders: Tamaqua Const. Co., Tamaqua, Pa., $119,869. Plumbing, Wasner & Reddig, 206 North Sixth street, Reading, $14,-925. Heating, Corbit Brothers, Third and Oley streets, Reading, $24,750. Electric, Reading Electric Co., 503 Penn street, Reading, $5,200.

Women's Club and Memorial Building, (Alts.), Cynwyd, Pa., Architects, Savery & Scheetz, Stephen Girard Bldg., Phila. Owner, Women's Club of Bala Cynwyd, Mrs. S. Stephenson, Pres.; Dr. A. Quinn, Pres. of Board of Trustes, Cynwyd, Pa. Brich, stone, cut stone, 1 story and basement, 69x45 feet, Memorial Bldg., 32x57 fee. (Plumbing, heating, elcectric liberty equipment reserved.) Varigated slate and slag roof, pine, cement and maple floors, metal lath, tile work, floor hardener, ornamental iron work, duraflex floors, painting and glazing, bluestone, flagstone, limestone, area gratings, magnesite floors. Architects taking bids due May 28th.

Residence and Garage, Wallingford, Pa. Architect, William W. Price, 119 S. 4th St., Phila. Owners, Mr. and Mrs. Charles D. Mitchell, Wallingford, Pa. Stone, 2½ stories and basement, 100x35 feet, irregular asbestos shingle roof(oak and pine floors, hot water heat, electric light, tile work, ornamental iron work, flagstone. Architect taking bids due June 1st.

Paving, Twp. of Tinicum, Pa. Engineers, Damon & Foster, 6932 West Chester Pike, Pa. Owner, Board of Commissioners Twp., A. T. Reese, Sec'y, Tinicum, Pa. Certified check, $400. Owner taking bids due June 7th, 8 P. M.

Pennsylvania Contracts Awarded

Dining Hall, Eaglesville, Montgomery County, Pa. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Eaglesville Sanatorium for Consumptives, care of Dr. A. J. Cohen, 1613 Spruce street, Philadelphia. Stone, brick, cut stone, steel, 1 story and basement, 91x73 feet, variegated slate roof, cement, composition and linoleum floors, hollow tile, elevators, plumbing, painting and glazing, Anti-Hydro waterproofing, dampproofing, ornamental iron work, iron stairs, bond, metal lath, steam heat, electric light, brass thresholds, demolition, incinerator, kitchen equipment, refrigerators, bluestone, area gratings, wrought iron pipe. Contract awarded Knox Landers, 1132 Vine street, Philadelphia.

Store Front (alts.), 349 North Hampton street, Easton, Pa. Architect, Harold Holmes, Detroit, Mich. Owners, S. S. Kresge Co., Detroit, Mich. Steel, brick, concrete, granite, 1 story, 28 feet, pine, maple and cement floors, steam heat, metal lath, tile work, vitrolite bond, copper fronts, sheet rock, bronze grills, tablets and strips, mill work, carpentry, metal ceilings, sheet metal work, plumbing, painting and glazing. Contract awarded A. P. Smith, Easton, Pa.

Store and Apartment (alts. and add.), Shenandoah, Pa. Architect, John B. Thompson, 34 South Seventeenth street, Philadelphia. Owner, Jack Ivenstark, Shenandoah, Pa. Frame, 3 stories, 15x80 feet, tin or slag roof, hardwood and pine floors, hot water heat, electric light, metal ceilings, plate glass, flush bulks. Contract awarded J. Gale Wendel, 19 East Lloyd street, Shenandoah, Pa.

Lodge, 21 South Fourth street, Hamburg, Pa., $54,000. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, L. O. O. M., J. R. Ebling, secretary, Hamburg, Pa. Brick, limestone, 3 stories and basement, 32x180 feet, tin roof, concrete, cork, maple, terrazzo floors, steam heat, electric light, tile. Contract awarded Henry Wanner, Hamburg, Pa.

Church, Hope and Charles streets, Coatesville, Pa. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Joseph's Roman Catholic Church, Coatesville, Pa. Stone, brick, 1 story and basement, 45x85 feet, slate roof. Contract awarded to Frank Seraski, Embreeville, Pa.

Residence, Twentieth and Market streets, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, O. K. Kines, care of architect. Brick, stone, 2 stories, 26x36 feet, tile roof, hardwood floors, tile work, electric light, cut stone. Contract awarded to J. S. Foose, Front and Emerald streets, Harrisburg.

Factory (add.), Bally, Pa. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owners, Bally Ribbon Mills Co., care of architects. Brick, steel, 1 story and basement, 50x60 feet, slag roof, maple floors, electric light, steel sash, fire doors. Contract awarded to H. Sattler, Quakertown, Pa.

Residence, Wyomissing, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owner, T. C. Christ, Wyomissing, Pa. Stone, 2½ stories, 35x60 feet, slate roof, hardwood floors, vapor vacuum heat, electric light, tile work. Contract awarded to C. H. Schlegel, 2250 Perkiomen avenue, Reading.

Dormitory, Fifth and St. John streets, Allentown, Pa. Architects, Ruhe & Lange, Allentown, Pa. Owners, Good Shepherd Home, Rev. J. H. Raker, Allentown, Pa. Brick, 3 stories, 64x40 feet. Contract awarded to W. H. Gangwere, Allentown, Pa.

Emergency Electric System in Auditorium, Fort Washington, Pa. Architect, Watson K. Philips, 215 South Fifth street, Philadelphia. Owners, School Board of Upper Dublin Township, William Worman, superintendent. Contract awarded C. Marvin Riley, Fort Washington, Pa.

High School, York, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, School Board, City of York, D. H. Crider, secretary, York, Pa. Completion of auditorium and gymnasium. Contract awarded to C. W. Strayer, 2302 North Second street, Harrisburg, Pa.

Residence, Seventh and Chew streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Dr. Elmer Bausch, 252 North Seventh street, Allentown, Pa. Brick, 2 stories, 76x40 feet, built-up roof, hardwood floors, electric light, tile work. Contract awarded to L. W. Hunsicker, 821 Chew street, Allentown, Pa.

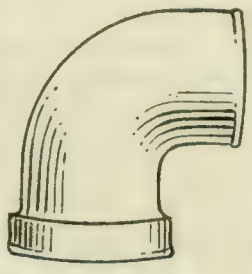
Church, Glenside, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, Board of Home Missions of the Reformed Church, Glenside. Stone, cut stone, limestone, 1 story and basement, 40x60 feet, black slate and slag roof, oak, cement and pine floors, metal lath, ornamental iron work, cast stone, flagstone. Contract awarded E. J. Hiltebeitel, 1501 West Hunting Park avenue, Philadelphia.

Residence, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owner, J. McF. Thomson, care of architect. Brick, 2½ stories, 35x28 feet, slate roof, hardwood floors, tile work, electric light. Contract awarded to L. D. Menough, York, Pa.

Bank, Dallastown, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, Dallastown Union State Bank, Mr. Meyers, president, Dallastown, Pa. Brick, 1 and 2 stories, 20x60 feet, composition roof, terrazzo floors, tile and marble, steam heat (heating reserved), electric light, bronze work. Contract awarded to C. F. Deller, Dallastown, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Dauphin County, A-3856, West Hanover Township. One course reinforced concrete. Contract awarded to York Eng. & Const. Co., York, Pa., $97,893.35.

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SURETY BONDS

New Jersey Construction News

Bell Telephone Exchange, Twelfth and Wesley avenue, Ocean City, N. J. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, steel. Work contemplated.

Church and School, White Horse pike, West Berlin, N. J. Owners, Our Lady of Mt. Carmel Roman Catholic Church, Rev. Lewis Hayes, West Berlin, N. J. Work contemplated.

School (add.), Brooklawn, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, School Board, Borough of Brooklawn, Gloucester County, N. J. Brick, 2 stories, 60x84 feet, slate roof. Plans in progress. Owners will take bids in two weeks.

Factory Building, Twenty-eighth and Buren avenue, Cramer Hill, Camden, N. J. Owners, John E. Lingo & Son, foot of Elm street, Camden, N. J. Architect, private plans. Brick, steel, 1 story, 70x100 feet, steel sash, slag roof, concrete floors. Owners ready for sub-bids due at once.

Parkway School (add.), Ewing Township, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, Ewing Township School Board, Mr. Latham, clerk, care of architects. Brick, steel, 2 stories, 48x36 feet, slag roof, maple floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, iron stairs, iron work, fire doors, hollow metal sash, metal lath (heating, plumbing and electric separate). Architects will be ready for bids in one week.

Office Building, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, New Jersey Manufacturers' Association, care of architects. Reinforced concrete, steel, brick, 3 stories and basement, 50x75 feet, built-up roof, linoleum floors, hollow tile, dumb waiters, safety treads, vault doors, steel stairs, iron work, hollow metal doors, metal lath, vapor heat, electric light. Architect will take bids next week.

Hotel (add.), Cooper and Federal streets, Camden, N. J. Architects and engineers, H. L. Stevens & Co., 522 Fifth avenue, New York City. Owners, Walt Whitman Hotel, J. R. Taylor, manager, Camden, N. J. Stone, brick, steel, will contain dining room, kitchen, auditorium, etc. Architects and engineers will build.

Theatre and Stores, Hightstown, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, John and Mary Hight Amusement Co., Trenton, N. J. Brick, hollow tile, structural steel, 2 stories, 50x135 feet, 50x70 feet, slag roof, cement and tile floors, roof ventilators, steam heat, electric light, metal lath, rolled steel sash, fire doors, ornamental iron work, concrete stairs. Architect taking bids.

Fire House, Riverside, Burlington County, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Riverside Fire Co. No. 1, Riverside, N. J. Brick, stone, tile, stucco, steel, 2 stories and basement, 115x40 feet, built-up roof, mastic floors, safety treads, metal ceilings, integral waterproofing, metal lath, rolled steel sash and skylights, bond, ornamental iron work, Duntile work, dumb waiter, hardware, painting. Owners taking bids due June 2nd, 8 P. M. (Standard Time).

Sales Room and Office Building, New Brunswick, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Elwood E. Waller, New Brunswick, N. J. Brick, steel, 2 stories and basement, 67x166 feet, Johns Manville roof, concrete, maple and terrazzo floors, hollow tile, iron stairs, bronze, plate glass, fire doors, rolled steel sash, tile and marble, metal lath, electric light, steam heat. Architect taking bids.

Armory, Burlington, N. J., $50,000. Architects, Division of Architecture and Construction, Trenton. Owners, State Military Board, Trenton, N. J. Brick, steel, 1 story and basement, 60x100 feet, slag roof, maple floors, cement floors, steam heat, electric light. Owners taking bids due June 9th.

Grade School (add.), Wildwood, N. J. Architects, V. B. Smith, Atlantic City, and L. H. Boyer, Wildwood, N. J. Owners, Board of Education, William Todd, secretary, Wildwood, N. J. Brick, steel, 3 stories and basement, 124x137 feet (plumbing, heating and electric separate bids), slag roof, concrete and maple floors, hollow tile, safety treads, metal lath, marble work, kalamein doors. Architects taking bids due June 11.

Storehouse (add.), Trenton, N. J. Architects, Division of Architecture and Construction, Trenton. Owners, Department of Institutions and Agencies, State Home for Girls, Trenton, N. J. Brick, steel, 1 story, 30x50 feet, slate roof, concrete floors (heating, plumbing and electric separate). Architects taking bids due June 2nd.

Infirmary, Trenton, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State Home for Girls, Trenton, N. J. Brick, 2½ stories, slate roof, tile and marble, waterproofing, dampproofing, ornamentla iron work, iron stairs (heating, plumbing and electric separate). Architects taking revised bids due June 2nd.

Bank (alts. and add.), Wildwood, N. J. Architects, Morgan French Co., 19 West Forty-fourth street, New York. Owners, Marine Trust Co., Wildwood, N. J. Brick, granite, limestone, steel, 1 story, mezzanine and basement, 80x70 feet, slag roof, cement floors, steam heat, electric light, tile work, copper skylights, kalamein doors, demolition, acoustical treatment, ornamental iron work. Owners taking bids due June 2nd.

Building No. 3 (add.), Camden, N. J. Architect, private plans. Owners, American Brown Boveri Elec. Corp., Camden, N. J. Brick, 1 story, 180x60 feet, asbestos asphalt roof, cement floors, metal lath, rolled steel sash. Owners taking bids due as soon as possible.

New Jersey Contracts Awarded

Apartment House, Ocean City, N. J. Architect, Roy G. Pratt, Franklin Trust Building, Philadelphia. Owners, Acme Holding Corp., 25 Broad street, New York City. Brick, 6 stories, irregular, 40 apartments, electric light, tile and marble work, hardwood floors, fire tower. Contract awarded to Friel-McLeister, Inc., 334 South Smedley street, Philadelphia, who will be ready for sub-bids in two weeks.

Apartment House, Pacific avenue, between South Carolina and Tennessee avenues, Atlantic City, N. J. Architect, W. Macy Stanton, 1524 Chestnut street, Philadelphia. Owner, Nathan Levin, Atlantic City, N. J. Reinforced spread foundations, steel frame, brick, limestone, 11 stories, 100x100 feet, 72 apartments, slag roof, cork floors, steam heat, gypsum and hollow tile partitions, electric light, tile and marble worg, 2 elevators, incinerator, refrigeration, fur storage vault, plate glass, roof tanks, metal bulks, ornamental iron work. Contract awarded Charles P. Tilton, Atlantic City, N. J., who is taking sub-bids. Plans may be seen at office of architect.

Belfont Hotel (add.), 106 South Tennessee avenue, Atlantic City, N. J. Architect, W. Macy Stanton, 1524 Chestnut street, Philadelphia. Owner, F. J. Friez, on premises. Brick, steel, 5 stories, 72 rooms, slag roof, composition floors, elevators, steam heat, electric light, tile work, plumbing, stucco, iron stairs and miscellaneous iron work. Contract awarded Taylor Meyer, Pittsburgh, Pa.

Church (add. and alts.), 520-22 State street, Camden, N. J., $6,000. Architect, George I. Lovatt, 223 South Sydenham street, Philadelphia. Owners, Holy Name Church, on premises. Brick, 2 stories, 8x12 feet, slag roof, extensive interior alterations. Contract awarded to M. J. Jubanyik, Sixth and Penn streets, Camden, N. J.

Store (add. and alts.), 522 North Sixth street, Camden, N. J., $4,000. Architect, Howard E. Hall, 819 Cooper street, Camden, N. J. Owner, Jack Rappaport, on premises. Brick, 1 story add., 15x18 feet, slag roof, general alterations. Contract awarded to M. W. Cooperson Co., Sixth and Jackson streets, Camden, N. J.

Garage and Add. to Residence, 431 Vine street, Camden, N. J., $3,500. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Joseph E. Nowrey, 921 Cooper street, Camden, N. J. Brick, 3 stories add., 16x17 feet, slag roof, garage, 16x15 feet. Contract awarded to John Lindeborn, 932 Kimber street, Camden, N. J.

Building, 1006 South Second street, Camden, N. J., $3,000. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Camden Bronze & Casting Co., on premises. Block, 1 story, 20x60 feet, slag roof, electric lighting. Contract awarded to Victor Bezahler, 1027 Atlantic avenue, Camden, N. J.

Residence, 2927 Saunders street, Camden, N. J., $4,500. Architect, private plans. Owner, Mary E. Young, Camden, N. J. Brick, 2 stories, 16x36 feet, slag roof, hot air heat, electric work. Contract awarded to Macksie Glass, 4 Beach street, Moorestown, N. J.

Store Front (alts.) to Residence, 427 Haddon avenue, Camden, N. J., $3,000. Architect, private plans. Owner, Morris Horwitz, Sixth and Girard avenue, Philadelphia. Brick, 1 story add., 6x2 6feet, 3x22 feet, slag roof, altering residence into store, extensive alterations. Contract awarded to Shectman Brothers, 1924 North Marshall street, Philadelphia.

Miscellaneous Construction News

Mausoleum, Rock Creek Cemetery, near Washington, D. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, Mrs. C. I. Corby, care of architect. Contractors, Davis, Wick & Rosengarten, Washington, D. C., taking sub-bids on granite, marble, bronze, concrete, cement and excavation due as soon as possible. Plans may be seen at architect and builder's office.

Sunday School, Reynolda, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owners, Reynolda Presbyterian Church, Reynolda, N. C. (Plumbing, heating and electric reserved.) Architect taking bids due June 3rd.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Owners taking bids due June 9th at 2 P. M. Certified check required. Deposit of $2.00 for plans (not refunded).

Contract 64, Rogers Corner Cutoff, .97 mile. Excavation, borrow, broken stone base course, cement concrete pavement, concrete, corrugated metal pipe, R. C. pipe, wood shoulder curb.

Contract 66, Kennett Pike Drainage, 400 feet. Borrow, catch basins, terra cotta pipe.

Contract 67, Elliott's Crossing, .40 mile. Ex-

cavation, borrow, broken cinder base course, corrugated metal pipe.

Contract CN29, Milford X Roads-Mermaid, 3.55 miles. Excavation, borrow, sub-base, broken stone base course, cement concrete pavement, longitudinal metal joint or non-metallic joint, class A concrete, reinforcement, R. C. pipe, pipe underdrain, class A concrete gutter, wood shoulder curb.

Proposal

Addressed to the Chairman of the Building Committee, will be received by Board of Trustees, Laurelton State Village, Laurelton, Union County, Penna., until 10.30 A. M., June 12, 1926, and then and there publicly opened for the furnishing and installing of Central Heating Plant. Separate bids are to be received on the following items:

1. Building complete with retaining walls, railroad trestles, excavating and grading.
2. Boilers including settings, accessories, and smoke breeching.
3. Radial Brick Chimney and foundation.
4. Steam distribution system including piping and auxiliaries in Boiler House; underground system of piping; alteration and additions to heating and hot water systems in buildings.

Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability; equipment and organization to assure speedy completion of the contract, and in making awards, the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. Drawings and specifications may be obtained upon application to **George S. Idell, Architect, 1510 Chestnut Street, Philadelphia, Pa., for Item 1** and from **Stewart A. Jellett Company, 1200 Locust Street, Philadelphia, Pa., for Items 2, 3 and 4,** upon a deposit of $10.00 payable to Laurelton State Village, as security for safe return of the drawings and specifications within ten (10) days after date of opening proposals.

A certified check for five per cent (5%) of bid or an approved bidder's bond to the amount of five per cent (5%) of bid must accompany all proposals, as a guarantee that successful bidder will execute the contract and furnish a satisfactory surety bond in the full amount of same.

(Continued from page 324)

tween the floor joists, and a warm room underneath, the "sweating" of the ceiling will occur most frequently at the places on the ceiling, which are just under the joints between the lath. This sweating consists frequently of only microscopic patricles of moisture and it is on these little wet strips between the lath that any dust which is present will collect so that in time a definite dirt streak becomes apparent, and the location of each and every lath can be readily traced by a glance at the ceiling.

The same, however, is not true of a ceiling which is plastered on a metallic base. The metal acts as a temperature distributor so that the entire plastered surface is at practically the same temperature and if any condensation takes place, it is uniform over the surface and the streaking is absent. It is for this reason that many builders are coming to use the metallic base for their plastering because it has been found that whereas some apartments need decoration every year, others that are plastered on metal lath can go without decoration sometimes for two years or more, simply because of the absence of streaking and discoloration.

This matter of redecoration, now that labor and materials for this class of work have risen to such high figures, is manifestly one of large expense which in many cases forms an appreciable part of the income from an apartment building. The prospective builder or investor in such types of residential occupancy, can well afford to look very carefully into this matter of Better Plastering, especially when it is realized that the added cost of plastering on a metallic base in many cases runs as low as 25c per square yard.

"Using a figure of 25 cents per square yard as the difference in cost between plastering on metal lath and ordinary plastering," says E. M. Lurie, civil engineer and building construction expert for the Associated Metal Lath Manufacturers, "it will be found the added investment occasioned by using metal lath on the entire ceilings of an average six-apartment building, costing $30,000 will amount to only $160,—about one-half of one per cent of the total cost."

"Moreover," continues Mr. Lurie, "note how this small item of $160 does yoeman work in reducing upkeep costs:

"With ordinary plastering, the ceiling quickly shows the need for redecoration. Here it is that streaks and discoloration first make their appearance. When a metal lath base is used the walls and ceilings "weather" alike and except that the paper on the side walls may need a little going over once a year, the apartment may go two years without requiring the decorator's attention.

"Assuming that each apartment in this building is redecorated every year, the cost of calcimining the ceilings alone as quoted by reliable decorators would amount to $147.00. If, however, the ceilings are in good shape—unstained and undiscolored—so they require calcimining only every other year, the cost per year, will be just one-half of the above amount or $73.50. The saving of equal amount capitalized at six per cent. represents the interest on $1,225.00. Comparing this amount with the $160.00 difference in the initial cost between plastering on metal lath and ordinary plastering, it will be seen that the owner by investing in Better Plastering, saves the interest on $1,065.00 which amounts to $63.90 yearly. His $30,000 building in reality is worth $31,-065 merely because he invested $160 for Better Plastering.

Another way to look at it is to note that when the owner has had the ordinary plastered ceilings recalcimined four times, he will have paid to the decorator, out of the rentals received, an *extra* sum for the cost of upkeep just a few dollars less than the original cost of using Better Plastering; nor does this consider the probability that redecorating the ceiling may require attention to the walls thus adding materially to the maintenance expense. From a financing point of view it looks far better to place the added expense for using metal lath in the original construction contract than to show the larger fixed annual upkeep expense required for decorating and cleaning unsatisfactory plastering."

Considering also the matter of plaster cracks, as mentioned in the early part of

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BELL PHONE, CAMDEN 3210
KEYSTONE, CAMDEN 3147
SURETY BONDS

this article, the "American Builder" goes on to say that many a prospective renter judges the character of the building in general by the condition of the walls and ceilings. Cracks are most apt to occur in corners because it is there where different types of construction, subjected to different stresses, join; the creed for Better Plastering has been widely adopted by better builders and includes the use of strips of metallic lath to reinforce these corners. They are, undoubtedly, the least expensive item which goes in to the cost of plastering and applied over ordinary lath or plaster board, where walls and ceilings come together, the plaster is thus reinforced at its most critical point. Tests made at the Armour Institute of Technology have shown conclusively that the cracks will not form until a load much in excess of that which will produce a crack, is thrust upon the construction, inasmuch as much of the stress which causes cracks in ordinary construction, is the result of minute shrinkage of the fibres of the wood studs, which are the structural support of a wall. Therefore, as the cracks do not occur sometimes for a year after the building has been completed, it will be readily appreciated that if metal lath is used at these corners, the effect of the stresses in the wood can be counteracted so as to result in a crackless corner.

Thus, the owner of an apartment must give consideration to this very simple method of reducing the large expense caused by corner cracks. Two such cracks in opposite corners of a room may require its entire re-decoration as a cost which would vary anywhere from $10.00 to $25.00 depending on the type of decoration. The actual cost of building metal lath into the corners of a room will not amount to more than possibly $1.00 a room, so that its use can be of very material benefit to the prospective builder.

In commenting on the preceding, Mr. Lurie, who has been quoted previously states:

"In closets, bedrooms and similar parts of the building crackproof plaster on a metal base prevents the concealment of vermin, and is thus a great boon to good housekeeping. Moreover, in the larger rooms such as living and dining rooms and in the kitchen portion of kitchenette apartments where cracks are most discernible and objectionable, it will be seen by figures quoted in the preceding data, that the employment of metal lath throughout might well be given consideration. The walls and the ceilings of that part of the building used for preparing food are especially subject to mositure which causes ordinary lath to swell and warp and discoloration would be found most prominent under such conditions. Here again the question of investment necessary to offset the large item of redecorating expenses, demands careful thought."

Outside of the purely commercial advantages to the owner of an apartment building, in using Better Plastering as a means of reducing upkeep expense and maintaining the resale of his building, there is the further very important advantage of having a building which is fire-resistive to a remarkable degree. The use of metal lath as a plastering base and protection for wood studs and joists, results in what is known as "Protected Construction," which has been given a full one-hour rating by authoritative testing laboratories. Many cities and the codes of many states, now require this type of construction as a minimum protection for certain parts of apartment houses in order to insure safety of life to occupants. Such construction will confine the fire to its starting place for at least one hour thus permitting the occupants to make their escape without panic and leaves ample time for the fire department to be notified and reach the fire before it has gained headway. This type of protected construction is midway between ordinary construction with its serious fire hazard and resulting loss of life, and the much more expensive so-called fireproof construction which requires masonry walls and partitions and frequently makes the cost of apartment buildings so high that the investment involved results in high apartment rentals, which are in many cases hard to justify. They are a permanent incumbrance on the building and such apartments are at a disadvantage when compared with those of the protected type which can be built as a much lower cost.

Hotels and apartment owners frequently give large display to the fact that their building is fireproof, and for all practical purposes the owner of a building of protected construction can similarly use the fact as a decided asset in renting apartments.

There is thus a three-fold advantage in employing Better Plastering; one is the dollars and cents question of reducing maintenance costs, second the reduction in "turn-over" by preserving a new appearance in the apartments so as to encourage the tenant to remain, which fact in turn preserves the re-sale value of the building. Third, there is the added advantage of being able to say that the building affords an unusual degree of protection to the lives of its occupants.

Of unusual interest to all prospective home owners is a special pamphlet "Six Steps in Building or Buying a Home," just issued by the American Construction Council.

This pamphlet gives suggestions on the more important things which should be kept in mind when buying or building a home.

Like all of the Council's findings it is impartial in nature and designed to further the interests of the public in co-operation with the responsible elements of the construction industry.

It has been prepared by the Better Building Committee of the Council after a national survey of conditions and through this committee represents the combined effort of over 40 representatives of all branches of the construction industry including public officials.

As such this pamphlet should have unusual significance in showing prospective home owners the business value of better built and properly financed homes as well as how to get them.

Several years ago the American Construction Council called special attention to the very serious situation confronting the country because of the large percentage of present day building throughout the country, especially housing, that is distinctly inferior in quality and unsound in financing. At that time the Council pointed out that many houses recently built are so carelessly constructed that within ten years time, sometimes less, they will be practically valueless and that this means not only a heavy burden in repairs and maintenance, but serious loss on the principal invested with frequently higher insurance rates and greatly increased heating costs. It also pointed out that the methods of financing were frequently just as bad as the character of the construction itself.

To help remedy this situation the Council, as a non-profit making impartial body representing nationally all of the component parts of the construction industry, is giving vigorous attention to the whole problem of Better Building and is bringing together the public and the industry itself in the development of good standards and practices. Certainly no question is of more far-reaching scope or of greater intensity in its importance to all elements of our citizenship than this question of better building. In some fashion or other it hits everybody—investors, owners, manufacturers, designers of buildings, employers, labor, renters, payers of insurances and the like. Questions of health, safety and comfort of living also enter into it.

This pamphlet on "Six Steps in Building or Buying a Home" has been prepared for national distribution and is available at nominal prices covering the cost of printing only. The American Construction Council, whose headquarters are at 28 West 44th Street, New York City, will be glad to mail any number of copies to those who wish them upon receipt of such price, as follows:

1 copy	10c
10 copies	90c
25 copies	$2.00
50 copies	3.50
100 copies	5.00

DWIGHT L. HOOPINGARNER,
Executive.

Reference Directory for Architects, Builders and Owners

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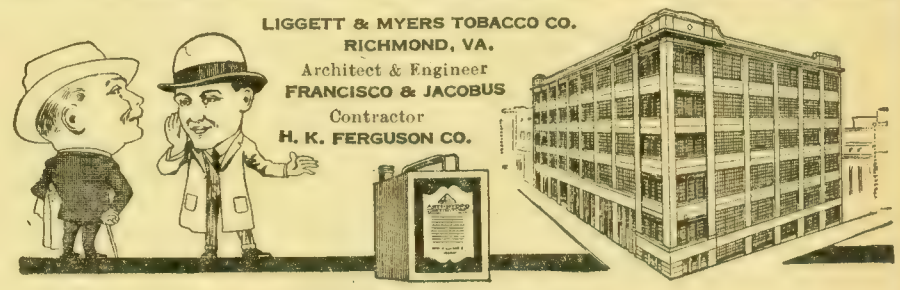
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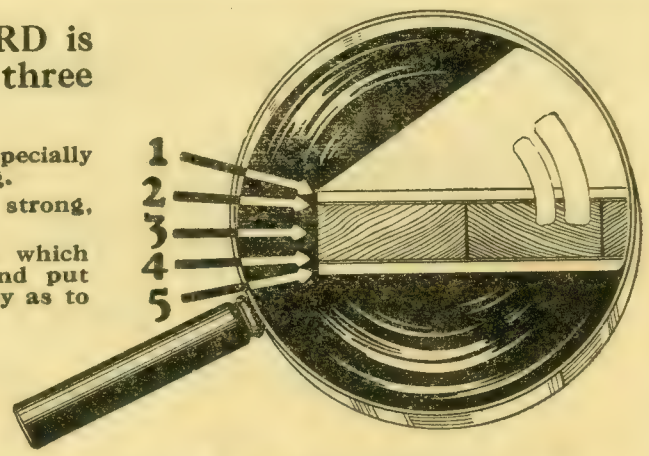
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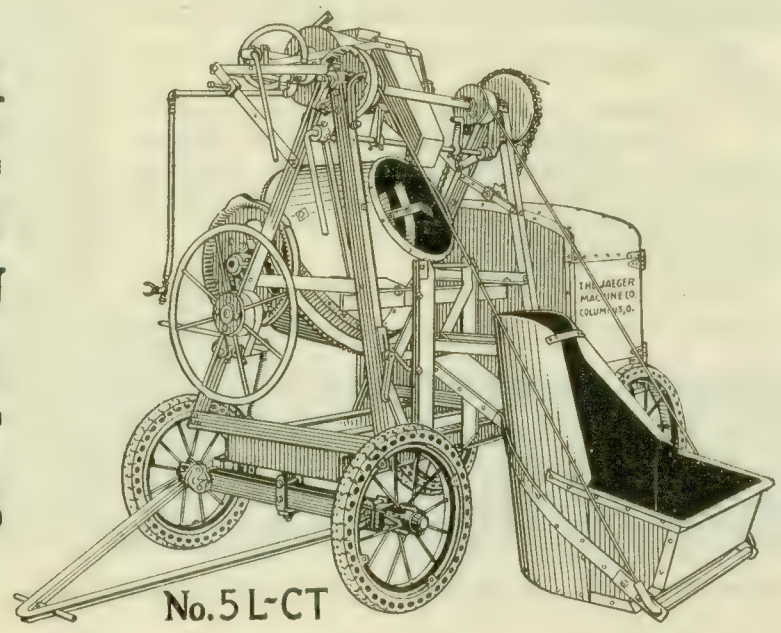
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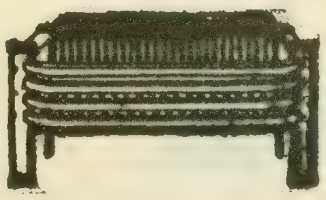
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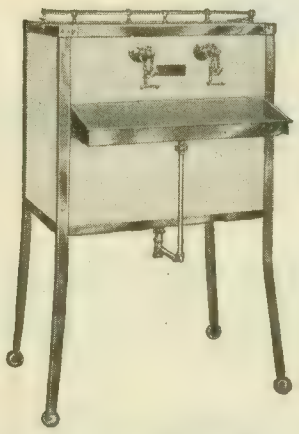
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Number 22

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June 2, 1926

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As The Editor Sees It

NEW FINISHES FOR THE WOODWORK IN THE INTERIOR THE MODERN HOME

Woodwork for the interior of the home has been characterized in the past few years by simplicity of line and finish. Simplicity of line has been obtained by doing away with all the fancy cornices and moldings that used to be considered essential if the woodwork was to be decorative. But it happens that wood trim has been made just as interesting by conservative handling, which has minimized the actual amount of woodwork in a room. It has been a case of quality rather than quantity.

For example, the trim about doors and windows has been narrowed down to a smooth plain board, unornamented in many cases and at most, decorated with only one or two groovings. Doors have been simplified in appearance by use of one single panel rather than many small ones and the tops of bookcases, buffets and fireplaces have been given simple treatment by using a plain heavy board for shelf and mantel rather than one made elaborate with cornice and fancy molding.

Wood trim set flush with the wall has also been in favor, the baseboards being treated this way as well as the window and door trim. And this method of handling wood trim has been recommended for its hygienic aspect as well, eliminating as it does, many dust catching surfaces.

All this simplicity and almost severity of treatment harks back in a degree to the idea of giving the house an Old World atmosphere. With the styles of the early Renaissance being copied in the newer homes a certain primitiveness, a certain rough craftsmanship has been considered one of the desirables notes in decorating the rooms, be they living, dining, or bedrooms. And from this simplicity there has grown a still newer tendency to bring out the woodwork by new features.

The new features mean the addition of balustrades and grilles between rooms as a filler or curtain on each side of door openings, before wall recesses and windows. Shelves have grown in popularity too, bracketed on the wall, walls themselves have been made a part of the wood-trim by panelling and wainscoting, and ceilings are being timbered wholly or partially. Timbers, hand-hewn, were seen recently for ceiling trim in one attractive house and the stairway in this same dwelling was made pleasingly quaint by hand-turned balustrades and unusually heavy treads left in dull finish. To further carry out this rough craftsmanship, heavy nail heads are frequently employed and the wood is usually left to show its grain through a very dull polish. Carving is also a means of giving added beauty to woodwork suggesting the art of the Old World, and in many cases, a clever painting of the wood simulates the carving at far less expense.

Of course, the treatment of wood given a room depends largely upon the effect desired and this in turn depends upon the selection of wood that will carry out the chosen style pleasingly. A natural finish for wood is very good for such rooms as the hall, living and dining rooms. Walnut and mahogany, the genuine or an imitation finish, are popular and gum is also used to good advantage. Redwood is also very handsome when left in its natural tone, but rubbed to a satin smoothness.

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Color is coming to the front too, in featuring the woodwork and there is a bewildering choice of colors and fancy finishes from which to choose, if gayety is liked for the interior of the house. The narrow wood trim that is simple in line, according to the latest fads, is demanding a bright color coat or a trimming of color here and there. Besides the standard creams, whites and grays, there are several other colors coming into favor such as green, blue and brown. Green is delightful in an apple tint or a dull blue green and blue may range from a dull gray blue to a deep royal blue. Brown is seen in coffee tint as well as a deeper brown and is used for the formal rooms of the house as are the other new greens and blues.

For bedrooms, lavender or a gray that suggests lavender, blue, rose and yellow are seen. Pink woodwork is indeed very pretty in some settings and was seen in one new home given a plaster treatment to blend it with rose walls. For the cottage chamber, these new colors recommend themselves especially and are most charming when chosen with an eye to the exposure of the room, as for example, with blue, a cool color, on the sunny side of the house and yellow or sun tint used for a cold north room.

For novelty, black and scarlet is also being used in such rooms as the breakfast and sun-rooms. Scarlet is best used scantily, however, and black is best livened with another color such as orange, red, light green or gold.

Two-toned effects are indeed the means of making woodwork very smart and distinctive. In a dining room painted in dull gray, the woodwork may be brightened by a line of bright green or blue, for example, used to edge the trim, and about panels on the doors. Orange on deep brown is another delightful combination and yellow with deep blue may give the woodwork a pleasing richness.

Decorative motifs are also being used to brighten up panels where walls are wainscoted, and doors are "shadowed" so that panels are a feature now. Flowers in quaint bouquets furnish the inspiration for some of the decorations and scrolls of silver and gold are good.

The use of gold and silver leads one to consider still another means of treating the wood-trim of the house. Metallized effects are among the newest of finishes for woodwork. Stippled and polychromed are many of the door and window frames, the base boards and moldings. Very often a plain color such as blue or green is covered with a spray of silver or gold to give a polychromed effect. And wiped woodwork is still another means to be employed when wishing to bring out the grain of woodwork and yet have a number of colors suggested. Gray and green in a soft blend, for instance, are achieved by using some of these new treatments in such rooms as the living or dining room and may suggest a welcome change from the much used ivory or plain gray.

In any case, a study of the new styles in wood-trim and finish will help one to modernize the old house and have "the latest" in the new house, with a wide variety of styles and an equally accommodating scale of costs dependent on simple or elaborte treatments, one may make the woodwork of the home as individual as one likes!—Keith's Magazine.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Rectory, Philadelphia. Architect, Peter J. Getz, Victory Building, Philadelphia. Owner, name withheld. Stone, 3 stories and basement, slate roof, hardwood and maple floors, pine floors, vapor heat, electric light, tile and marble work, plumbing. Plans in progress.

Medico Chiurgical College, Nineteenth and Lombard Sts., Philadelphia. Architect, John T. Windrim, Commonwealth Bldg., Philadelphia. Owner, University of Pennsylvania, Thirty-fourth and Spruce Sts., Philadelphia. Brick, granite, cast stone, steel, 9 stories and basement, 136x64 feet, 60x54 feet, asphalt roof, cement and linoleum floors, elevators, metal lath, tile and terrazzo work, kalamein and hollow metal doors, bond, ornamental iron work, painting and glazing, cork insulation, cinder block, casement sash, metal partitions, lockers Revised changes in all lines. Architect taking new bids due June 7th.

Contract No. 125, Fern Rock Terminal, Broad Street Subway. Owner, Department of City Transit, 1211 Chestnut Street, Philadelphia. Special track work Certified check 5% of bid Deposit $50.00 refunded. Owner taking bids due June 23rd, 11 A. M. (S. T.)

Residences (3), West side Bingham Street, north of Kerper Street, $5700 each. Architect, private plans. Owner, A. J. Minchey, 909 Shelmire St., Philadelphia. Brick, 2 Stories, 16x35 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (3), West side Bingham Street, north of Levick St., $4500. Architect, private plans . Owner, Ralph Cerino, 7041 Mower Street, Philadelphia Brick, 2 stories, 15x25 feet, 11x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. permit granted.

Residences (3), West side of Bingham St., north of Levick St., $4500. Architect, private plans. Owner, Thomas Wallace, 6218 Chew St., Philadelphia. Brick, 2 stories, 15x25 feet, 11x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light . Permit granted.

Demolition and Removal of Buildings, Wheatsheaf Lane and Penrose Ferry, Pattison Ave., to Beaver St., Philadelphia. Owner, Dept. of Public Works, 117 City Hall.

Alterations to Fire House, Eva and Dearnley Sts., Upper Roxborough. City Architect, John Molitor, 1315 Walnut Street, Philadelphia Owner, Department of Public Work, Bureau of City Property. Owner taking bids due June 10th, 11 A. M. Certified check 5%.

Apartment House, East side Sixty-third, Columbia and Lebanon, Philadelphia, $750,000. Architects, T. B. Lippincott and C. S. Schaef, 11 South Sixteenth street, Philadelphia. Owners, Warren Apartment Corporation, care of architect. Tapestry brick, reinforced concrete, fireproof, cast stone, 10 stories and basement, 48x140 feet, 120 feet x irregular, slag and tile roof, hardwood, rubber tile and linoleum floors, electric elevators, vapor heat, oil burning, electric, metal lath, tile work, wood sash, copper skylights, tin clad and kalamein doors, painting walls and ceilings throughout, copper bulks, plate glass, 4 basement stores, ornamental plaster, Simplex partitions, ornamental iron work, house phones, incinerators, individual electric refrigerators. Plans in progress.

Academy Building, Chestnut Hill, Pa. Architect, Paul A. Monaghan, 1520 Locust street, Philadelphia. Owners, St. Joseph's Academy, Rev. Mother Mary James, on premises. Stone, 4 stories. Sketches in progress. Details undecided.

Theatre, Cherry street, between Watt and Juniper streets, Philadelphia. Architect, Ralph Benckert, Bellvue Court Building, Philadelphia. Associate, H. J. Kropp, 1 West Forty-seventh street, New York City. Owners, Juniper & Cherry Streets Corporation, care of architect. Brick, reinforced concrete, steel, 1 story and mezzanine and balcony, electric light, metal lath, fire and kalamein doors. Revised plans in progress.

Church, Southeast Corner Twenty-sixth and Wharton streets, Philadelphia. Architects, Stimmler & Malatesta, 1713 Sansom street, Philadelphia. Owners, King of Peace Italian Roman Catholic Church, Rev. W. A. Pelosi, 409 Dickinson street. Plans will be completed in about one week.

Office Building, Southwest Corner Twentieth and Race streets, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Daniel and Paul Henon, Finance Building, Philadelphia. Size of lot, 18x90 feet. Work contemplated. Too early for details.

Apartment House, 5427 Wayne avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, J. Presper Eckert, Commercial Trust Building, Philadelphia. Brick, 3 stories, 100x250 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Bank, Northeast Corner Pratt and Allegheny avenue, Philadelphia. Architects, Watt & Coscia, 1504 Locust street, Philadelphia. Owners, Allegheny Title & Trust Co., F. T. Neill, president, 300 Walnut street. Limestone, brick, steel, 2 stories and mezzanine, 38x58 feet, slag roof, hardwood floors, elevators, plumbing, concrete work, plastering, grills, vapor heat, oil burning, electric light, tile and marble work, hollow metal sash, bank fixtures. Plans in progress. Ready for bids in two weeks.

Bank Building, Broad, York road and Sixty-seventh avenue, Philadelphia. Architect, Ralph B. Bencker, Bellevue Court Building Philadelphia. Owners, Oak Lane Trust Co., Leon Lewis, on premises. Brick, steel, limestone, 35x40 feet. Plans in progress. Will be ready for bids in about 3 weeks.

Residences (2), Vernon road, Germantown, Philadelphia, $19,000 total. Architect, Frank Green, 1221 East Washington lane, Germantown. Owner, Louis Phillips, 2927 North Twenty-fourth street, Philadelphia. Stone, stucco, 2 stories, 18x46 feet, 2-car garages, hot water heat, electric light, tile work, slate and slag roof. Owner taking sub-bids.

Residences (54), Edgewood street and Elmwood avenue, Philadelphia. Architect, private plans. Owners, Zerby & Holloway, 4717 North Broad street, Philadelphia. Brick, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Owners taking sub-bids.

Residences (62), Fairhill, Johnson and Bigler streets, Philadelphia. Architect, private plans. Owner, William L. Jones, 2816 South Fairhill street, Philadelphia. Brick, 2 stories and basement, 16x35 feet, slag roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Owner will build. Ready for bids in a month.

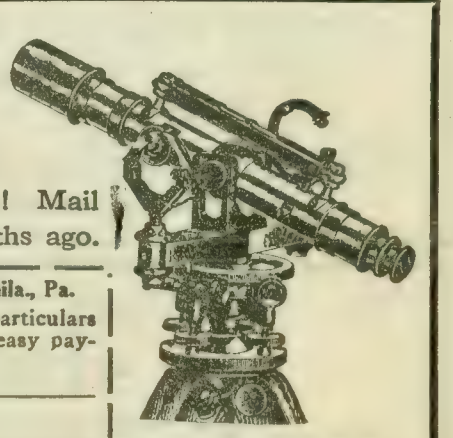
Theatre, Germantown and Westmoreland streets, Philaa. Architect, Ralph P. Reist, 1627 Sansom street, Philadelphia. Owners, Carmen Theatre, George Gravenstein, on premises. Brick, steel, 1 story, slag roof, cement floors, metal lath, tile, marble and terrazzo work, hollow metal sash, bond, ornamental iron work, leaded glass, art marble and bronze work. Owners building.

Church and Sunday School, Ridge avenue and Hermitage street, Roxborough. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Levering Presbyterian Church, Rev. H. Burgess, 4423 Mitchell street. Stone, brick, cut stone, steel, 2 stories and basement, 103x72 feet, wing 110x82 feet, variegated slate and built-up roof, cemetn and maple floors, steam heat, electric light, metal lath, terrazzo work, hollow metal sash, fire doors, floor hardener, truscon waterproofing, demolition, steel partitions, plumbing, painting and glazing, plastering, cut cast stone, flagstone. Architects taking bids due June 14th at noon.

Store (alts.), 1112 Chestnut street, Philadelphia. Architect, Frank E. Hann, Seventh and Chestnut streets, Philadelphia. Owner,

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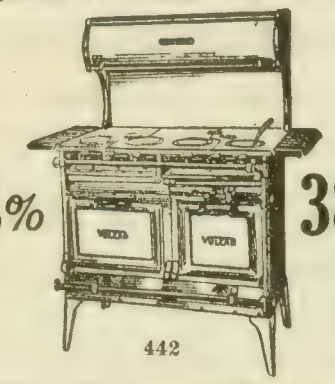
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Forbes, 1115 Chestnut street, Philadelphia. Interior alterations. Architect takin gbids due June 4th at 2 P. M.

Wilson Park, Twenty-fourth, Twenty-fifth, Jackson and Wolf streets, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Construction of walks. Certified check, 5 per cent. Owners taking bids due June 8th, 11 A. M. (Standard Time).

Substructure of Mechanical Filters, Ford and Belmont avenue, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Reinforced concrete, brick, steel, 198x179 feet, waterproofing, bond, ornamental iron work, subway gratings, electric ducts. Owners taking bids due June 8th.

Church (alts. and add.), Hancock and York, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Alpha Baptist Church, Rev. Howard K. Williams, on premises. Stone, slate roof, general alterations and additions. Plans in progress.

Laundry Building, 3506-08 Haverford avenue, Philadelphia. Architect, Julian Simsohn, Broad and Girard avenue, Philadelphia. Owners, Stratford Dampwash Laundry, Mr. Frazier, 4729 Market street. Brick, steel, 1 story, 60x50 feet, slag roof, cement floors. Architect taking bids.

Memorial Church, Oak road, between School lane and Midvale avenue, Germantown. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owners, Church of the Good Shepherd, Rev. W. Y. Edward, 5916 Wayne avenue. Architect taking bids due June 9th.

Contract No. 30, painting, Delaware River Building. Owners, Delaware River Bridge Joint Commission, Widener Building, Philadelphia. Painting, including demolition of timber structure, Pier 11, Philadelphia. Contract time, 4 months. Certified check, $10,000. Deposit, $25, refunded. Contractor's bond 50 per cent. Owners taking bids due June 16th, 1.30 P. M. (Standard Time).

Miscellaneous Work, Philadelphia. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. Owners taking bids due June 10th, 10 A. M. (Standard Time) for work appurtenant to South Philadelphia track elevation, concrete viaducts, abutments and piers, track laying and surfacing along the line of the Delaware extension of Pennsylvania Railroad between Twenty-fifth street, Ellsworth, Passyunk avenue, with rundown to South of Oregon avenue. Plans and specifications from assistant engineer, 1729 Filbert street, Philadelphia.

Residences (15), South side Gibson avenue, West of Sixty-second street, $5,000 each. Architect, private plans. Owners, Lear & Abramson, 840 Jackson street, Philadelphia. Brick, 2 stories, 15x31 feet, 9x13 feet, hot water heat, electric light, slag roof. Permit granted.

Residences (2), 5715-17 Reach street, Philadelphia, $5,000 each. Architect, private plans. Owner, William Shoemaker, 5726 Mascher street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hot water heat, electric light. Permit granted.

Residences (6), 401-11 Courtland street, Philadelphia, $4,000 each. Architect, private plans. Owner Joseph Ovarz, 7527 Lawndale street, Philadelphia. Brick, 2 stories, 16x24 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Swimming Pool, West side Wissahickon avenue, North of School Lane, Philadelphia. Architect, private plans. Owners, Alden Park Manor Co., Inc., K. M. DeVos, on premises. Permit granted.

Residence (alts.), 2018 North Thirty-second street, Philadelphia, $4,000. Architect, private plans. Owner, Alexander E. Bass, 1011 Chestnut street, Philadelphia. General alterations. Permit granted.

Store and Apartment (alts.), 1815 South street, Philadelphia, $5,000. Architect, private plans. Owner, Frank Sagaman, on premises. General alterations. Permit granted.

Rooming House (alts.), 2006 Chestnut street, Philadelphia, $2,000. Architect, private plans. Owner, Paul A. Rinck, Broad and Erie avenue, Philadelphia. General alterations. Permit granted.

Building, North side Tyson street, West of Delaware avenue, Philadelphia, $13,000. Architect, private plans. Owners, West Jersey Sand & Supply Co., Delaware avenue and Marlborough street, Philadelphia. Iron, 1 story, 55x108 feet. Permit granted.

Shop, Storage and Office Building, Northeast Corner Richmond and Tioga streets, $12,000. Architect, private plans. Owners, Gilbert Spruance Co., on premises. Brick, steel, 1 story, 62x34 feet, 17x96 feet. Permit granted.

Residences (18), North side Buist avenue, West of Sixtieth street, $3,500 each. Architect, private plans. Owner, Thomas M. Cockerill, 2242 St. James Place, Philadelphia. Brick, 2 stories, 16x29 feet, 12x8 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Kensington Recreation Center (add.), Berks and Blair streets, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Department of Public Works, Bureau of Recreation, 595 City Hall. Low bidders: E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia, $16,496; Ralph S. Herzog, 10 South Eighteenth street, Philadelphia, $16,926.

Residences (22), Nedro avenue, Howard and

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Mascher streets, Philadelphia, $144,000. Architect, private plans. Owner, Carl Metz, 315 West Rockland street, Philadelphia. Brick, 2 stories, (4) 16x38 feet, (18) 15x28 feet, 12x10 feet, slag roof, hardwood and pine floors. Permit granted.

Storage Bin, West side Fifty-first street, South of Botanic avenue, $25,000. Architect, private plans. Owners, The Van Sciver Corporation, Beach and Berks streets, Philadelphia. Frame and steel, 24x168 feet. Permit granted.

Apartment Building (add. and alt.), 440-42 Queen Lane, Philadelphia, $20,000. Architect, private plans. Owner, B. E. Ruhland, 5232 Laurens street, Philadelphia. Brick, 4 stories, 24x46 feet, slag roof, hardwood floors, electric light, general alterations. Permit granted.

Store and Office, 4623 Frankford avenue, Philadelphia, $13,000. Architect, private plans. Owners, Kuhn & Lowery, 4665 Paul street, Philadelphia. Brick, 2 stories, 33x60 feet, slag roof, hot water heat, electric light. Permit granted.

Residences (2), North side Shawmont avenue, West of Umbria street, $10,000 total. Architect, private plans. Owner, Edward E. Davis, Shawmont avenue, West of Ridge avenue, Philadelphia. Brick, 2 stories, 15x36 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, South side Stanwood street, West of Frontenac, $4,500. Architect, private plans. Owner, P. Heidt, Jr., 7403 Claridge street, Philadelphia. Frame, 1 story, 24x36 feet, shingle roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Garage, 252 East Roosevelt Boulevard, Philadelphia, $2,000. Architect, private plans. Owner, H. Rubin, 4823 North Hutchinson street, Philadelphia. Brick, 1 story, 16x38 feet, slag roof, cement floors, electric light. Permit granted.

Residences (2), South side Seville street, East of Ridge avenue, $6,500 each. Architect, private plans. Owner, H. P. Wooler, 438 Seville street, Philadelphia. Block, 2 stories, 16x44 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence, South side Wellington Road, west of Frontenac St., $5,000. Architect, private plans. Owner, Louis Leitenberger, Jr., 7326 Bingham St., Philadelphia. Frame, 2 stories, 26x42 feet, shingle roof, hardwood and pine floors, electric light Contract awarded to Thos. Lampman, 332 Bingham St., Phila.

Store Building, 929 Market street, Philadelphia. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Harry C. Kahn & Son, Eleventh and Filbert streets, Philadelphia. Brick, reinforced concrete, cut stone, steel, limestone, 5 stories and basement, 200x23 feet, composition roof, cmeent and pine floors, elevators, roof ventilators, plumbing, integral waterproofing, dampproofing, steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow metal sash, rolled steel skylights, hollow metal doors, metal bulks, ornamental iron work, automatic sprinkler, bronze work, hardware, demolition, granite, oil burners, copper pipe, ventilating system. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Building (alts.) into Apartment House, 1819-21 East Tioga street, Philadelphia. Architect, Edward Schoeppe, 1437 Spruce street, Philadelphia. Owner, E. Irving Shuttleworth, 3054 Kensington avenue, Philadelphia. Brick work, cut stone, marble work, iron work, cement and concrete, plastering, slag roof, composition floors, hardware, carpentry and mill work, hot water heat, electric light, metal lath, oak floors, steel cabinets, plumbing. Contract awarded Roland Bale, Jr., on site, 1819-21 East Tioga street, Philadelphia.

Mill Building, Northeast Corner Umbria and Lemonte streets, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Manayunk Plush Co., Charles W. Horrocks, 109 Levering street, Manayunk. Brick, reinforced concrete steel, 1 story, 58x45 feet, slag and asphalt roof, cement floors, safety treads, plumbing, hollow metal sash and doors, ornamental iron work, metal toilet partitions. Contract awarded C. M. Swartley, 6835 Ridge avenue, Philadelphia.

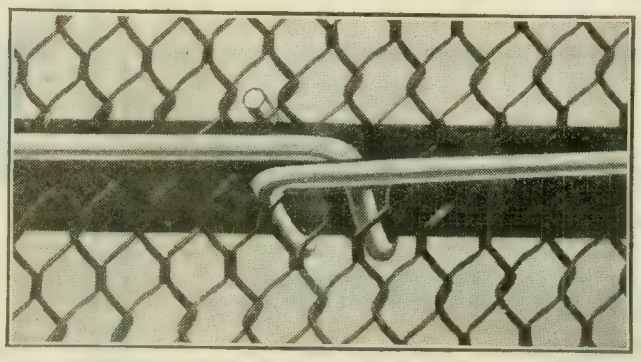
Store and Offices, 124 South Eleventh street, Philadelphia. Architect, David Supowitz, 929 Chestnut street, Philadelphia. Owner, H. White, Esq., care of architect. Brick, cut stone, steel, 4 stories and basement, 20x88 feet, slag roof, maple floors, painting and glazing, plumbing, architectural terra cotta, steam heat, electric light, tile work, metal lath, rolled steel sash, galvanized iron skylights, rolling steel doors, bond, ornamental iron work. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia, who are taking sub-bids on revised plans.

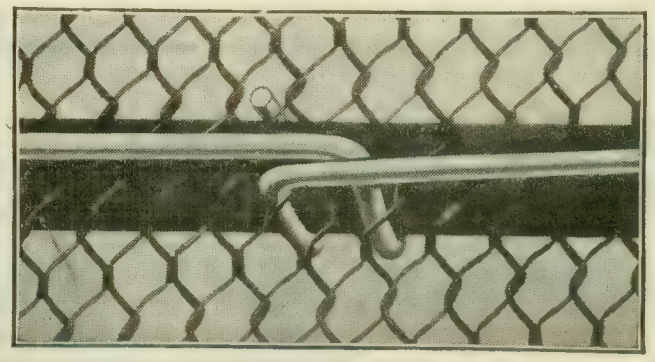
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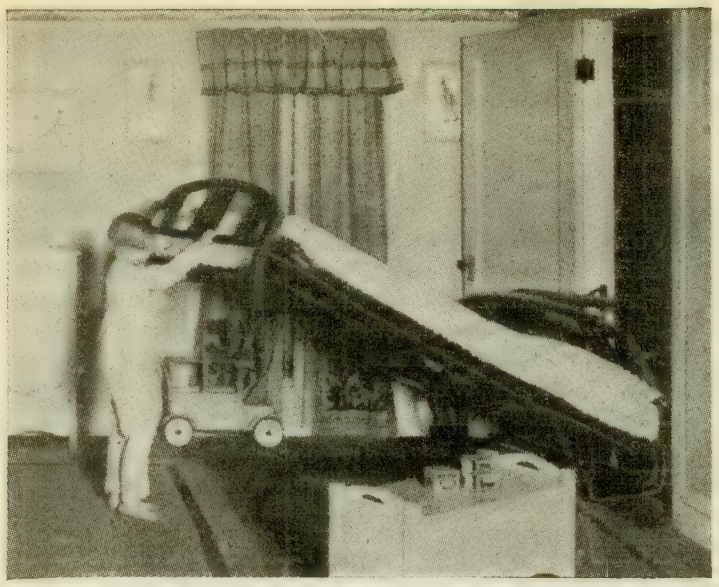
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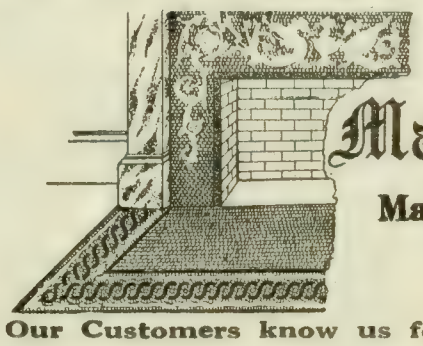
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Press Shop, Twenty-fifth and Hunting Park avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Edward G. Budd Mfg. Co., Twenty-fifth and Hunting Park avenue, Philadelphia. Brick, steel, 1 story, 72x143 feet, saw-tooth and slag roof, cement and wood floors, electric light. Contract awarded without competition to Wark & Co., 1600 Walnut street, Philadelphia. Foundations being laid.

Store Building, 1915-19 Chestnut street, Philadelphia. Architects, William M. Gravell and A. W. Hall, Otis Building, Philadelphia. Owner, name withheld. Brick, cut stone, steel, 4 stories and basement, 153x40 feet, slag roof, cement floors, elevators, painting and glazing, plumbing, vapor heat, electric light, tile work, metal lath, bond, ornamental iron work, sprinkler system, plate glass, galvanized iron skylights. Contract awarded J. Schnabel, Abbott Building, Philadelphia.

Office Building, Manufacturing Building and Garage, Rhawn street, off State road, Fox Chase. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, John J. Nesbitt, Inc., manufacturers of Universal Unit Ventilator, Atlantic City, N. J. Steel, brick, 1 story and 2 stories, 190x180 feet, saw-tooth construction roof, concrete floors, steam heat, electric light. Contract awarded Bowden Const. Co., 1607 Summer street, Philadelphia.

Storage Building (add.), Belmont avenue and Rock Mill road, West Manayunk. Architect, Frank C. Watson, Crozer Building, Chester, also Wallingford. Owners, Belmont Cement Burial Case, on premises. Stone, steel, 1 story, 80x60 feet (plumbing, heating and electric reserved), Barrett Specification roof, cement floors, bond, ornamental iron work. Contract awarded E. L. Cuthbertson, 334 Roxboro avenue, Philadelphia.

Squash Courts and Passageway, Chestnut Hill, Pa. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Persifor Frazer, 3rd, on premises. Concrete, stone, 1 story, slag roof, plumbing, tile, rolled steel skylights, heating, lighting, flagstone. Contract awarded Charles Bowman, 8127 Germantown avenue, Philadelphia.

Church (alts. and add.), Sixty-third and Cedar avenue, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Carthage Roman Catholic Church, Rev. P. F. O'Neill, on premises. Demolition, carpentry and mill work, plastering, hardware. Contract awarded B. J. McKenna, 1713 Moravian street, Philadelphia.

Residence, Scotford road, South of Mt. Pleasant avenue, $30,000. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owner, Charles Jenkins, care of architects. Stone, 2½ stories and basement, 30x22 feet, wing 38x24 feet, wing 18x15 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work, flagstone. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Band Pavilion, Sesqui Grounds, Philadelphia, $14,400. Architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Sesqui-Centennial Exposition, Broad and Oregon avenue, Philadelphia. Metal lath, stucco, rubberoid roof, cement floors, carpentry, mill work, concrete work, painting and glazing, plumbing. Contract awarded to Haverstick & Borthwick, Schaff Building, Philadelphia.

Funfield Recreation Center, Twenty-second and Sedgley avenue, Philadelphia, $60,000. Architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Bureau of Recreation, Department of Public Welfare, City Hall. Reinforced concrete, cut stone, brick, steel, granite, 1 story and basement, 80x45 feet, slag and tin roof, cement, maple and pine floors, metal lath, marble, hollow metal doors, ornamental iron, iron stairs, lockers, area gratings, roof ventilators, dampproofing. Contract awarded to David Lutz Co., Twenty-third and Chestnut streets, Philadelphia.

Substructure, Pier No. 80, Delaware avenue, South Wharves, Philadelphia. Architect, private plans. Owners, Department of Wharves, Docks and Ferries, 211 Pier No. 4, South Wharves. Contract awarded McLean Contracting Co., 80 South Wharves, Philadelphia, $1,093,525.

Residence (alts. and add.), Southwest Corner Sixty-fourth and Woodbine avenue, $10,000. Owner, Walter Eckhendt, Sixty-fourth and Woodbine avenue, Philadelphia. Brick, 2 stories add., 28x16 feet, general alterations. Contract awarded to Heist & Dougherty, 1216 North Eleventh street, Philadelphia.

Synagogue (add. and alts.), 3012-14 West Cumberland street, $13,000. Owners, Congregation Lichron Yachob, 2505 North Twenty-ninth street, Philadelphia. Brick, 2 stories add., 28x17 feet, general alterations. Contract awarded to Nathan Lapidus, 4643 C street, Philadelphia.

Residence and Store, Southwest Corner Second and Brown streets, Philadelphia, $10,000. Architect, private plans. Owners, Saiffer Brothers & Cutler, 1304 Arch street, Philadelphia. Brick, 3 stories, 20x40 feet, slag roof, hot water heat, electric work. Contract awarded to Katz & Kleiner, 5038 North Hutchinson street, Philadelphia.

Storage (alts.), 1236 Kater street, Philadelphia, $7,500. Architect, private plans. Owner, Herman B. Feldman, 1231 Bainbridge street, Philadelphia. General alterations. Contract awarded to Robbins Cont. Co., 1137 North Front street, Philadelphia.

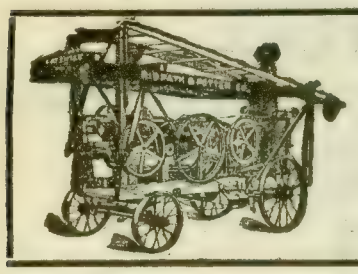
Factory (add. and alts.), 326 North Tenth street, Philadelphia, $5,800. Architect, private plans. Owner, M. L. Schwartz, on premises. Brick, 2 stories add., 12x45 feet, general alterations. Contract awarded to Alexander Laub, 812 West Wyoming street, Philadelphia.

Garage and Show Room, 711-13 South Fiftieth street, Philadelphia, $8,000. Architect, private plans. Owner, W. H. Howgate, 711-13 South Fiftieth street, Philadelphia. Brick, 1 story, 40x85 feet, slag roof, cement floors, electric work. Contract awarded to J. D. Fisher, 5426 Thomas avenue, Philadelphia.

Residence (add.), 1820 Rittenhouse street, Philadelphia, $5,000. Architect, private plans. Owner, Dr. E. P. Barnard, 245 South Eighteenth street, Philadelphia. Brick, 2 stories, 6x10 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to H. E. Grau Co., 1707 Sansom street, Philadelphia.

Residences (2), 300 and 306 East Haines street, Philadelphia, $3,500 each. Architect, private plans. Owner, Joseph Spagnolia, 304 East Haines street, Philadelphia. Brick, 2 stories, (1) 16x47 feet, (1) 14x14 feet, 11x31 feet, slag roof, pine floors, electric light. Contract awarded to D. D. Steel, Tenth and Union avenue, Darby, Pa.

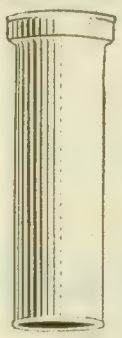
Garage, 3025 Queen Lane, Philadelphia, $3,000. Architect, private plans. Owner, Morris Miller, on premises. Stone, 2 stories, 22x24 feet, cement work. Contract awarded to A. V. Gilchrist, Drexel Building, Philadelphia.


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Service Station (add.), East side Farragut street, North of Walnut street, $3,000. Architect, private plans. Owner, John P. Donahue, Fifty-fourth and Market streets, Philadelphia. Brick, 1 story add., 18x40 feet. Contract awarded to J. L. Fawley, 1615 Spruce street, Philadelphia.

Store, Southwest Corner Gibson avenue and Island road, Philadelphia, $3,200. Owner, Morris Richman, 5 Main street, Darby, Pa. Brick, 1 story, 16x55 feet, slag roof, pine floors, electric work. Contract awarded to Gabriel Di Bucci, 4400 Wayne avenue, Philadelphia.

Residences (4), 411-13-15-17 Bainbridge street, Philadelphia, $39,000. Architect, private plans. Owner, Jacob Goldstein, 612 South Fourth street, Philadelphia. Brick, 3 stories, 17x40 feet, 14x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Harry Alterman, 4812 North Eleventh street, Philadelphia.

Residence, East side Emlen street, North of Johnson street, Philadelphia, $15,000. Owner, Hamilton Warner, Wissahickon Apartments, Germantown, Philadelphia. Stone, 2 stories, 26x8 feet, 44x26 feet(slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to John W. Moffley, 515 West Mt. Airy avenue, Philadelphia.

Publishing House (alts.), Northwest Corner Sixth and Walnut streets, $15,000. Architects, Frank C. Roberts & Co., Real Estate Trust Building, Philadelphia. Owners, Curtis Publishing Co., on premises. General alterations. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Apartment House (alts.), 1309 Spruce street, Philadelphia. Architect, private plans. Owner, Oscar Hay, 1308 Spruce street, Philadelphia. General alterations. Contract awarded to B. Tillinger, 1511 North Marshall street, Philadelphia.

Moving Picture Theatre (add.), Northwest Corner Second and Morris streets, $5,000. Architect, private plans. Owner, M. L. Pagelsky, 4524 North Warnock street, Philadelphia. Brick, 1 story add., 11 feet 9 inches x 81 feet. Contract awarded to Leo Pagelsky, 4524 North Warnock street, Philadelphia.

Grandstand, East side Twenty-ninth street, South of Clearfield, $4,000. Owners, Alumni Association, Roman Catholic High School, Broad and Vine streets, Philadelphia. Contract awarde dto Montgomery Iron & Steel Co., 918 West Berks street.

Office (alts.), 329 Walnut street, Philadelphia, $4,000. Architect, private plans. Owner, Clifford Hunt, on premises. General alterations. Contract awarded to Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

Residence (add.), 1013 Seventieth avenue, Philadelphia, $2,000. Architect, private plans. Owner, Edwin Sprowles, on premises. Stone, 2 stories add., 9x15 feet. Contract awarded to S. R. Krewson & Son, Elkins Park, Pa.

Japanese Bazaar, Sesqui Grounds, Philadelphia, $7,500. Owner, A. Kozai, New York City. Frame, 1 story, 40x100 feet. Contract awarded to Superior Woodworking Co., Hancock and Berks streets.

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Pennsylvania Construction News

Residence and Garage, Ithan Avenue, Rosemont, Pa. Architect, J. Bedford Wooley, 1935 Chestnut St., Philadelphia. Owner, L. J. Santamarie, Rosemont, Pa. Stone, steel brick, 2½ stories and basement, 94x36 feet, slate (variegated) roof, oak, pine and cement floors, metal lath, tile work, ornamental iron work, bond, area grills. Architect taking bids due June 9th.

Lodge Building, Second Avenue and Fayette St., Conshohocken, Pa. Architect, Chas. J. Mitchell, 15 South Twenty-first Street, Philadelphia. Owner, Knights of Columbus Home Association, Conshohocken Council, Conshohocken, Pa. Brick, cut stone, reinforced concrete, steel, 2 stories and basement, 50x120 feet, (heating, plumbing, electric reserved), metal lath, tile work, slag roof, cement and maple floors, hollow tile, water and dampproofing. Revised plans in progress.

Stadium, College Grounds, Chester, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Engineer, private plans. Owners, Pennsylvania Military College, care of H. H. Ward, Chester, Pa. Reinforced concrete, single deck, 7500 seating capacity. Plans in progress.

Apartment House, Ardmore, Pa. Architect, William Macy Stanton, 1524 Chestnut street, Philadelphia. Owner, name withheld. Brick, half timbmer and stucco, 3 stories and basement, 100x125 feet, 36 apartments, slate roof, hardwood and composition floors, vapor heat, oil burning, electric light, tile and marble work, incinerator. Plans in progress.

Church (alts. and add.), Sunday School and Community Building, State road and Bywood avenue, Bywood, Pa. Architect, John B. Thompson, 34 South Seventeenth street, Philadelphia. Owners, Mary C. Sellers Memorial Baptist Church, Rev. G. C. Dilworth, Bywood, Pa. Stone, steel, 2 stories and basement, 80x56 feet, slate roof, maple floors, electric light. Plans in progress.

Club Building, Lester, Pa. Architect, J. B. Thompson, 34 South Seventeenth street, Philadelphia. Owners, Lester School Association, Lester, Pa. Brick, structural steel, 2 stories, 60x32 feet, wing 20x20 feet, slag roof, maple floors, steam heat, electric light. Plans in progress.

Church (alts. and add.), North Ninth street, Reading, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Joseph's Roman Catholic Church, Rev. Thomas J. Harron, North Ninth street, Reading, Pa. Brick and concrete, 1 story, 38x80 feet, cement plastering, architectural terra cotta, tile work, architectural wrought iron, yellow pine floors, tile floors, slate, clay tile and composition roof. Plans in progress.

Junior High School and (alts.) to 14 Schools, Scranton, Pa., $5,000,000. Owners, Scranton

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NUMBER 5 OF A SERIES OF "FAMOUS STRUCTURES OF THE WORLD"

School Board, J. D. Hughes, secretary, 425 North Washington avenue, Scranton, Pa. Work contemplated.

Residence, Dorranceton, Pa. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owner, Dr. W. S. Kelly, Simon Long Building, Wilkes-Barre, Pa. Stucco, frame, 2½ stories, 26x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence (add. and alts.), Scranton, Pa., $22,000. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owner, L. G. Sylvester, 401 Quincy avenue, Scranton, Pa. Stucco, 2 stories, slate roof, hardwood floors, tile work, general interior and exterior alterations. Plans in progress.

High School, Swoyerville, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Swoyerville School Board, M. A. Lavin, secretary, Swoyerville. Semi-fireproof, 2 stories, 80x110 feet, slag roof, maple floors, metal lath, steel skylights, hollow tile, safety treads, roof ventilators. Plans in progress.

School, Port Griffith, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Jenkins Township School Board, J. Killian, secretary, Ingerman, Pa. Brick, 2 stories, 4 rooms, slag roof, pine floors, electric light. Plans in progress.

School (add.), near Pittston, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Jenkins Township School Board, J. Killian, secretary, Inkerman, Pa. Brick, 1 story, 2 rooms, slag roof, pine floors, steam heat, electric light. Plans in progress.

Residence and Garage, Kingston, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre. Owner, name withheld. Brick veneer, 2½ stories, 26x36 feet, slate roof, hardwood floors, Warren-Webster heat, electric light, tile work. Plans in progress.

Nurses' Home, Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Mercy Hospital, A. C. Campbell, 184 Hanover street, Wilkes-Barre. Brick, 3 stories, composition floors. Plans in progress.

Residence (alts. and add.), Merion, Pa. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, 10x30 feet, 15x30 feet, hot water heat extension, electric light, tile work, slate roof, hardwood floors. Plans in progress. Will be ready for general bids in one week.

School, Horsham, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Horsham, Pa. Plans will be ready for bidders in six weeks.

Power Plant, Chester, Pa. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Aberfoyle Manufacturing Co., care of Edward Lord, Chester, Pa. Brick, concrete, steel, 1 story, 60x70 feet, 2 1M H. P. Badenham boilers, rolled steel sash. Plans in progress. Owners will sublet.

Convent, Columbia, Pa. Architect, Paul Monaghan, 1520 Locust street, Philadelphia. Owners, Sisters, Adorers of the Most Precious Blood, St. Joseph's Convent, Columbia, Pa. Revised plans in progress for alterations to present building. New building will not be built at present time.

Convent, Scranton, Pa. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owners, St. Ann's Roman Catholic Church, Rev. P. Darrah, care of architect. Brick veneer, 3 stories, 40x80 feet, slate roof, oak, pine and tile floors, vapor heat, electric light, tile and marble, ornamental iron. Architect will be ready for bids next week.

Garage, Chester pike, Ridley Park, Pa. Architect, private plans. Owner and builder, Lloyd Smith, on site. Concrete block and stucco, 1 story, 50x125 feet, slag roof, concrete floors, steam heat, electric light. Owner taking sub-bids.

Community Center, Chester, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owners, Synagogue Center, care of architect. Brick, steel, 3 stories and basement, 80x118 feet, slag roof, hardwood floors, hollow tile, vapor heat, electric light, metal lath, tile work. Plans in progress.

Stores (2), Apartments (4), Glenolden, Pa. Architect, M. M. Boonin, 17 South Seventeenth street, Philadelphia. Owner, I. Persin, 635 Parker avenue, Collingdale, Pa. Brick, 2 stories, 35x71 feet, irregular, slag and asbestos shingle roof, pine and oak floors, electric light, hot water heat, tile bath, hollow metal skylights, store fixtures, flush bulks. Owner taking sub-bids and general bids.

Store (add.), Ridge avenue, Allentown, Pa. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owner, Dobnoff's, 631 Ridge avenue, Allentown, Pa. Brick, steel, 1 story, 36x80 feet, Carey roof, Duraflex floors, steam heat, electric light, rolled steel sash, ornamental iron work. Owner taking sub-bids.

Residence (alts. and add.), Wayne, Pa. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Charles W. Bayliss, Wayne, Pa. Stone, 3 stories, 16x32 feet, electric light, shingle roof, hardwood floors (tile, plumbing, heating reserved). Architect taking bids due June 8th.

Residence and Garage, Devon, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, Hon. George Wharton Pepper, Land Title Building, Philadelphia. Stone, cut stone, concrete, brick, steel, 2½ stories and basement, 141x25 feet, wing 81x25 feet, wing 23x33 feet, slate or shingle roof, oak and pine floors, walnut and cement floors, electric light, metal lath, tile and marble work, hollow metal sash, bond, ornamental iron work, flagstone, aquia stone, limestone, area gratings, canvas and copper roofs, brass pipe, plumbing. Architects taking bids due June 7th.

Glenside School, Reading ,Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Board of Education, Reading, Pa. Brick, steel, cast stone, 2 stories and basement, 95x60 feet, wing 46x89 feet (plumbing, heating, electric separate), slag roof, cement, composition and maple floors, hollow tile, roof ventilators, painting and glazing, dampproofing, metal lath, tile work, rolled steel sash, fire, kalamein and hollow metal doors, bond, floor hardener, iron stairs, ornamental iron work, monolithic floors, mastic treads, limestone, steel casement sash, steel partitions. Owners taking revised bids due June 15th.

Bank Building, South side Parker avenue, East of Clifton avenue, Collingdale, Pa. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Collingdale Bank (State), Collingdale, Pa. Brick, stone, cut stone, steel, 1 story and basement, 34x55 feet, slag roof, cement and composition and pine floors, electric light, metal lath, tile work, roof ventilators, dampproofing, ornamental

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iron work, pre-cast artificial stone, bronze work, area gratings, cabinet work, painting and glazing, hardware, plumbing, wrought iron pipe. Architect taking bids due June 4th before 5 P. M.

Apartment Building (6-family), Wilkes-Barre, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, Sandor Engel, 66 West South street, Wilkes-Barre, Pa. Brick, 3 stories, 40x90 feet, slag roof, hardwood floors, vapor heat, electric light, tile work. Owner taking bids.

Residence, Clearfield, Pa. Architect, P. J. Morris, Mears Building, Scranton, Pa. Owner, Dr. Gordon, Clearfield, Pa. Brick, 2½ stories, 42x45 feet, slate roof, hardwood floors, electric light, tile work. Owner taking bids.

Church School (add.), Scranton, Pa. Architects, Herbert L. Cain and A. N. Dobbins, 1709 Arch street, Philadelphia. Owners, Elm Park Methodist Episcopal Church, Scranton, Pa. Stone, brick, cut stone, steel, 3 stories and basement, 115x45 feet, wing 38x24 feet (heating and electric fixtures reserved), slate roof, cement and composition and maple floors, plumbing, waterproofing and dampproofing, ornamental iron work, iron stairs, bond, metal lath, tile work, electric light, demolition, granite, limestone, brass pipe, wrought iron pipe, bluestone, Architects taking bids due June 9th.

Mill, West Easton, Pa. Architect, William M. Michler, 610 Drake Building, Easton, Pa. Owners, Chipman Knitting Mills, Easton, Pa. Brick, reinforced concrete, steel, 3 stories and basement, 109x109 feet (heating, sprinkler and elevators reserved), slag roof, cement floors, rolled steel sash, fire doors, floor hardener, ornamental iron work, metal toilet partitions. Architect taking bids due June 9th.

Cottages Q-T-U-V, Penhurst, State School, Spring City, Pa. Engineer, J. Hibbs Buckman, Lincoln Building, Philadelphia. Owners, Penhurst State School, Spring City, Pa. Owners taking bids due June 16th, 9 A. M. (Standard Time). Deposit, $15.

Residence and Garage, Park Hill, Reading, Pa. Architect, Calvin Young, 226 North Sixth street, Reading, Pa. Owner, A. J. Stief, care of architect. Brick, 2 stories, 32x52 feet, 20x22 feet, slate roof, hardwood and concrete floors, hot water heat, electric light, tile work. Architect taking bids.

Central Heating Plant, Laurelton, Pa. Architect, George S. Idell, Corn Exchange Bank Building, Philadelphia. Owners, Laurelton State Village, Dr. M. M. Wolfe, Laurelton, Pa. Engineers, S. A. Jellet Co., 1200 Locust street, Philadelphia. Owners taking bids due June 12th, 10.30 A. M. No. 1, building complete, retaining walls, railroad trestle, excavating and grading. Plans may be obtained from architect. Deposit, $10, refunded. No. 2, boiler, including setting, accessories, smoke breeching. No. 3, radial brick chimney and foundations. No. 4, steam distributing system, including piping auxiliary in boiler, underground system of piping and alterations and additions to heating and hot water system in buildings. Plans on Items Nos. 2, 3, 4 from engineer. Deposit, $10, refunded, each.

Metal Weather Stripping, Eddystone School, Eddystone, Pa. Owners, School Board, W. W. Johnson, Jr., Eddystone, Pa. Owners taking bids due June 14th, 7 P. M.

Roosevelt School (alts. and add.), Middletown road and Wells road, Delaware County, Pa. Architect, Newton Flounders, Allison Building, Media, Pa. Owners, School Board of Middletown Township, Lima, Delaware County, Pa. Stone work, concrete, slag and slate roof, ventilators, folding partitions (heating, electric and ventilating separate). Low bidders: Hood & Gros, 1535 Chestnut street, Philadelphia, $16,194; D. A. McClelland, Drexel Building, Philadelphia, $16,658. Electric, Walter Scaves, Media, Pa., $395.50. Plumbing, all bids rejected. New bids in one week. Heating and ventilating to be decided later.

Power House and Gym, Susquehanna and Huntingdon streets, Abington, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Abington School Board, C. M. Doll, secretary, Glenside, Pa. Low bidders: Stahl & Walton, Willow Grove, Pa., $29,698; Eugene Tourison, 6924 Cresheim road, Philadelphia, $31,304; plumbing, William J. Magee, 2041½ East Chelten avenue, Philadelphia, $4,341 (held under advisement). Equipment awarded J. B. Smith, care of owner, $32,375; electric and heating, all bids rejected.

Park School, Highland avenue and Welsh road, Willow Grove, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Abington Township, C. M. Doll, Glenside, Pa. Low bidders: Stahl & Walton, Willow Grove, Pa., $24,480; R. S. Herzog, 10 South Eighteenth street, Philadelphia, $25,500; heating and electric, all bids rejected.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Low bidders:

Somerset County, A-3528, Wellsburg Borough, 8,055 feet. One course reinforced concrete. M. F. McCabe Co., Fairmount, W. Va., $61,727.20.

York County, A-2003A, Jefferson Borough, Codorus Township, 16,253 feet. One course reinforced concrete. Souder Const. Co., Lancaster, Pa., $108,178.74.

Clarion County, R-214, Section 1, Piney and Tobey Townships, 15,600 feet. One course reinforced concrete. Russell Brothers, Youngstown, Ohio, $105,394.15.

Westmoreland County, A-4009, Rostraver Township, 8,203 feet. One course reinforced concrete. J. F. Patterson, trading as Donora Const. Co., Donora, Pa., $72,321.41.

Butler County, R-75, A-4040, Eau Clair and Cherry Valley Borough, Venango Township, 11,310 feet. One course reinforced concrete. Indiana Const. Co., Indiana, Pa., $85,048.93.

Lehigh-Berks Counties, R-226, A-3795-6, R-285, Lynn and Albany Townships. One course, reinforced concrete, 32,736 feet. Johnson, Drake & Piper, Inc., Minneapolis, Minn., $242,380.51.

Adams-Cumberland Counties, R-41, A-3253, Huntingdon, Menallen, Tyrone, Dickinson, South Middleton Townships, 52,751 feet. One course reinforced concrete. Henry W. Horst Co., Rock Island, Ill., $433,877.08.

Indiana County, R-337, A-3700-3915, Brush Valley and East Wheatfield Townships, Armagh Borough, 21,872 feet. One course reinforced concrete. Fred D. Ross, Bradford, Pa., $159,353.43.

Northampton County, A-2642-2588, Upper Mt. Bethel and Washington Townships, 22,650 feet. One course reinforced concrete. Souder Const. Co., Lancaster, Pa., $163,966.84.

Pennsylvania Contracts Awarded

Power House (alts. and add.), Bryn Mawr, Pa. Owner, Bryn Mawr College, Bryn Mawr, Pa. Arcitect, private plans. Reinforced concrete, foundations, floors and coal bunkers, general alterations. Contract awarded McBride Const. Co., 10 South Eighteenth St., Philadelphia.

Residence, Shirley road, Narberth, Pa. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owner, Mrs. C. Howard McCarter, care of architect. Stone, half timber, 2½ stories, 78x23 feet, slate roof, oak floors, electric light, tile and marble work (heating reserved). Contract awarded C. L. Jenkins, Narberth, Pa.

School, Blakeley, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owners, Blakely School District, D. L. Thomas, president, Peckville, Pa. Brick, 2 stories, 6-room add. (heating, electric, plumbing separate). Contract awarded to Stender Brothers, Providence road and Albright avenue, Scranton, Pa. Heating awarded to Galyrd & Bentler, Wilkes-Barre, Pa. Electric awarded to Barnes & Armbruster, Scranton, Pa.

Residence (alts. and add.), Meeting House lane and Huntington pike, Meadowbrook. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Graeme Lorimer, on premises. Frame, 2½ stories, 30x95 feet, shingle roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded Ralph Borthwick, 6511 Woodstock street, Philadelphia.

Residence (add. and alts.), Jefferson avenue, Scranton, Pa. Architect, P. J. Morris, Mears Building, Scranton, Pa. Owner, M. T. Rovatsos, 846 Jefferson avenue, Scranton, Pa. Frame, stucco, 3 stories, 48x36 feet, tile roof, hardwood floors, electric light, tile work. Contract awarded to Fred Klee, 1030 Paul avenue, Scranton, Pa.

Residence (alts.), Quincy avenue, Dunmore, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owner, N. J. Dempsey, 1701 Quincy avenue, Dunmore, Pa. Hardwood floors, tile and marble work, general alterations. Contract awarded to Hagen Lumbed Co., Hickory and Mattes streets, Scranton, Pa.

Store and Apartment, Plymouth, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Brick, 2 stories, 24x60 feet, slag roof, hardwood floors, steam heat, electric light. Contract awarded to A. Minkewicz, Plymouth, Pa.

Cottage, Dallas, Pa. Architect, H. G. Cook, Jr., Miners' Bank Building, Wilkes-Barre, Pa. Owner, R. H. Lloyd, care of architect. Frame, 1 story, 36x26 feet, 26x26 feet, shingle roof, hardwood floors, hot air heat, electric light. Contract awarded to Johns Const. Co., 72 Melrose avenue, Wilkes-Barre, Pa.

Stores (4), Apartments, Wayne, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Joseph N. Fronefield, 3rd, 104 North Wayne avenue, Wayne, Pa. Brick, 2 stories, 20x30 feet, hot water heat, electric light, slag roof, hardwood and pine floors. Contract awarded Charles Palmer, Wayne, Pa.

Residence, St. Davids, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Allen C. Hale, Wayne, Pa. Brick, stone, 2½ stories, 56x43 feet, wing 22x18 feet, 20x20 feet, variegated slate roof, oak and pine floors, metal lath, tile and marble work, bond, bluestone, area gratings. Contract awarded N. W. Young, 2037 North Sixty-third street, Philadelphia, not signed.

Residence and Garage, Haverford, Pa. Architect, Ralph Colton, 1520 Locust street, Philadelphia. Owner, Joseph M. Patterson, Haverford, Pa. Stone, brick, steel, 2½ stories, 99x53 feet, hot water heat, electric light, metal lath, tile and marble work, rolled steel sash, shingle roof, flagstone (plumbing, heating and electric, tile and grading separate). Contract awarded E. J. Heddon, Finance Building, Philadelphia.

School, Upper Nazareth, Pa. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owners, Upper Nazareth School Board, D. E. Reinhard, Upper Nazareth, Pa. General construction, concrete and Duraflex floors. Contract awarded to H. W. Roth, Nazareth, Pa. Heating to American Heating & Ventilating Co., Schaff Building, Philadelphia. Plumbing to Frank Messinger, Nazareth, Pa.

School, Bechtelsville, Pa. Architect and engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owners, Bechtelsville School Board, S. B. Himmelberg, Bechtelsville. Brick, steel, 1 story, 82x58 feet, concrete roof, hollow tile. Contract awarded to Ralph Fronheiser, Barto, Berks County, Pa.

Bridges (2), Ambler, Pa., $73,500. Architect, private plans. Owners, Upper Dublic Township, Montgomery County, Pa. Reinforced concrete and steel, 2-span and 3-span. Contract awarded Carl R. Camp, 10 South Eighteenth street, Philadelphia.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Mercer County, A-3935, South Pymatuning Township, 15,385 feet. One course reinforced concrete. $87,498.68. Contract awarded to Jamieson & Knapp, Fredonia, Pa.

Westmoreland County, A-3567, 3984, North Huntingdon Township, Manor Borough. One course reinforced concrete. $137,905.74. Contract awarded to Cooper Const. Co., Clymer, Pa.

Mercer County, R-213, A-3936-4100. One course reinforced concrete. Contract awarded to Jamieson & Knapp Co., Fredonia, Pa. $133,476.67.

Berks County, A-3842, Section 1, Muhlenberg, Alsace and Ruscomb Manor Townships. One course reinforced concrete. $235,460.29. Contract awarded to Leonard Paving Co., 233 Broadway, New York.

Susquehanna County, R-12, A-4001, Dimock Township. One course reinforced concrete. $96,924.46. Contract awarded to Earl V. Chappell, Binghamton, N. Y.

Beaver County, R-115, A-3796-3624, Hopewell and Raccoon Townships. One course reinforced concrete. $351,907.99. Contract awarded to R. L. Bonham Co., Inc., Bridgeton, N. J.

Beaver County, R-278, A-3831, Brighton and Borough Townships. One course reinforced concrete. $158,032.43. Contract awarded to F. F. Hallam & Son, Fairmount, W. Va.

New Jersey Construction News

High School, Gloucester, N. J. Owner, St. Mary's R. C. Church, Rev. Maurice Bric, Gloucester, N. J. Work contemplated in one year.

School, Deep Water, Salem Co., N. J. Architect, C. R. Peddle, 136 S. Fourth St., Philadelphia. Owner, Board of Education, Lower Penn's Neck Township, N. J. Cement block, frame, stucco, 1 story and basement, 6 rooms, steam heat, electric light, slag roof, pine floors. Plans in progress.

Residence, Merchantville, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Simon Watkins, Merchantville, N. J. 2½ stories. Sketches in progress.

High School, Merchantville, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Merchantville School Board, R. G. Test, secretary, Merchantville. Fireproof. Architect selected.

Residence, Haddonfield, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Senator J. F. Wallworth, 432 Market street, Camden, N. J. Stone, tile, 2½ stories, 24x80 feet, slate roof, hardwood floors, tile work, electric light. Plans in progress.

Office Building, Seventh and Linden streets, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Richard McAllister Co., Seventh and Linden streets, Camden, N. J. Cinder block and stucco, 2 stories, 16x34 feet, tile roof, concrete floors, vapor heat, electric light. Plans in progress.

Stores, Atlantic City Railroad, Plaza, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Edmund H. Sharp, Twenty-seventh and Westfield avenue, Camden, N. J. Cinder block, stucco, 1 story, irregular size, slag roof, pine floors, electric light. Plans in progress.

Residence, Ventnor, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owners, Bank, Wickman & Dreyfous Co., S. B. Bank, Ventnor, N. J. Brick, 2 stories, 24x38 feet, slate roof, hardwood floors, hot water heat, electric light, tile work, frame. Plans in progress.

School, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, School Board of Atlantic City, Atlantic City, N. J. Fireproof. Plans in progress.

Stores, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Mrs. J. Rittman, care of architect. Brick, steel, 2 stories, 40x60 feet, slag roof, pine floors, electric light. Plans in progress.

Residence, Princeton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Dr. J. Vanneman, Princeton, N. J. Frame, 2½ stories, 30x76 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Edward B. Parsons, American Mechanics Trust Building, Trenton. Brick, timber ,stucco, 2½ stories, 30x65 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Delaware Gardens, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Griffith & Wagner, Stratford, N. J. Timber, 2 stories, 24x30 feet, shingle roof, pine floors, hot water heat, electric light. Owners taking sub-bids.

Slaughter House, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, A. Hovitz, care of architect. Reinforced concrete, steel, 2 stories, 50x75 feet, slag roof, concrete floors, roof ventilators, steel stairs, steel sash and skylights, electric light. Architect ready for bids.

School, Tuckerton, N. J. Architect, J. Noble Pierson & Son, Perth Amboy, N. J. Owners, Board of Education, Tuckerton, N. J. Brick, limestone, steel, 2 stories and basement, 107x128 feet, slag roof (plumbing, heating, electric separate). Owners taking bids due June 7th.

Gym and Auditorium Add. to High School, Noreh Wildwood, N. J. Architect, H. Rex Stackhouse and W. W. Donohoe, 1120 Locust street, Philadelphia. Owners, Board of Education, D. C. Young, North Wildwood, N. J. Brick, hollow tile, 2 stories, 154x72 feet, slag roof, maple, composition, cement work, heating and lighting extensions, tile, plumbing, locker and showers, etc. Plans in progress.

Residence and Garage, Margate City, N. J. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owner, name withheld. Brick, frame, 2 stories, 26x58 feet, slate roof, hardwood floors, tile work (heating, plumbing reserved), electric light. Architect will be ready for bids next week.

County Asylum (add.), Northfield, N. J. Architect, S. H. Vaugh, Guarantee Trust Building, Atlantic City. Owners, Atlantic County Board of Freeholders, Fred Willett, Broad Street Bank Building, Atlantic City, N. J. Fireproof, 3 stories, slate roof, composition floors (heating, plumbing and electric separate), metal lath, tile and marble, steel sash. Owners ready for revised bids due June 16th.

Residence (twin), Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, Thomas A. Koury, Atlantic City, N. J. Brick, 3 stories, 16x50 feee each, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will take sub-bids.

Office Building, Atlantic City, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, F. J. Pedrick, 1415 Atlantic avenue, Atlantic City, N. J. Brick, steel, 4 stories, 50x150 feet, slag roof, concrete and hardwood floors, hollow tile, elevators, safety treads, roof ventilators, steam heat, electric light. Owner taking sub-bids.

Parkway School (add.), Ewing Township, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owners, Ewing Township School Board, Mr. Latham, care of architects. Brick, steel, 2 stories, 48x36 feet, slag roof, maple floors, steam heat (heating, plumbing and electric separate), hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, ornamental iron, iron stairs, fire doors, hollow metal sash, metal

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lath. Owners taking bids due June 9th.

Office Building, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, New Jersey Manufacturers' Association, care of architect. Concrete, steel, brick, 3 stories and basement, 50x75 feet, built-up roof, linoleum floors, hollow tile, dumb waiters, safety treads, vault doors, steel stairs, iron work, hollow metal doors, metal lath, vapor heat, electric light. Architect taking bids.

Residence (alts.) to Stores and Apartments, Princeton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Frank Warren, Princeton, N. J. Partitions, plate glass, hardwood floors, tile and marble work, metal ceilings, terra cotta. Architects taking bids due June 9th.

Jail, Bridgeton, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, Board of Freeholders, Cumberland County, W. Phifer, Bridgeton, N. J. General construction, heating, plumbing and electric. Owners taking bids due June 7th, 10 A. M.

Hall of Records (alts. and add.), Toms River, N. J. Architect, P. P. Elkinton, Toms River, N. J. Owners, Ocean County Board of Chosen Freeholders, Tom River, N. J. Reinforced concrete, 2 stories and basement, 40x39 feet (plumbing, heating, electric separate bids), composition roof, composition, cement and pine floors, hollow tile, metal lath, rolled steel sash and doors, floor hardener, ornamental iron work, demolition. Owners taking bids due June 11th, 11 A. M. (Standard Time). Certified check 5 per cent. of bid.

Engineer's House, Lakeland, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Board of Chosen Freeholders, Court House, Camden. Brick, stone, 2 stories, 35x20 feet, 16x18 feet, slate roof, pine floors, tile work. Owners taking revised bids due June 4th.

Convention Hall Foundations, Atlantic City, N. J. Architects, Lockwood-Greene, Inc., Boston, Mass. Engineer, A. H. Nelson, Atlantic City, N. J. Owners, City of Atlantic City, N. J. Owners taking bids due June 3rd.

High Service Station, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Trenton Water Works, A. Swan, City Hall, Trenton, N. J. Concrete, brick, steel, 1 story, 49x31 feee, slate roof, concrete floors. Low bidder: William Hicks, 19 South Westfield avenue, Trenton, N. J.

Y. M. H. A. Building (add.), Hackensack, Bergen County, N. J. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owners, care of architect. Brick, steel, 2 stories, 50x110 feet, slag roof, hardwood floors, hollow tile, vapor heat, electric light, metal lath, tile work. Plans in progress. Architect will take sub-bids.

Residences (4), Garages (2), 1349-55 Van Hook street, Camden, N. J., $18,000. Architect, private plans. Owners, Costanza Brothers, 1540 Mt. Ephraim avenue, Camden, N. J. Brick, 2 stories, 16x53 feet and 14x53 feet, garages 8x18 feet and 16x18 feet, slag roof, hot water heat, electric light. Permit granted.

Residences (2), 3307-09 Mitchell street, Camden, N. J., $7,600. Architect, private plans. Owner, Homer B. Simpkins, 471 North Thirty-fifth street, Camden, N. J. Frame, 2 stories, 24x46 feet, slag roof, hot water heat, electric light. Permit granted.

Residence, 3426 Fairfax Drive, Camden, N. J., $5,000. Architect, private plans. Owner, Albert Seidelman, Woodbury, N. J. Frame, 2 stories, 24x26 feet, slate surface roof, hot water heat, electric light. Permit granted.

Bridge, King's Highway, Haddon Heights, and Audubon, N. J., $172,000. Owners, Atlantic City Railroad, Twelfth and Market streets, Philadelphia, and Boroughs of Haddon Heights and Audubon, N. J. Reinforced concrete. Plans in progress.

New Jersey Contracts Awarded

Apartment House (add. and alts.), 435 Bellevue avenue, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, J. Robin, 478 Greenwood avenue, Trenton, N. J. Brick, frame, 3 stories, 35x40 feet, slate roof, hardwood floors, electric light, tile work. Contract awarded to S. Teitz, 742 Greenwood avenue, Trenton, N. J.

Club House (alts.), Chelsea, N. J. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, Chelsea Yacht Club, Chelsea, N. J. General alterations and additions. Contract awarded T. S. Fetter, 1829 Filbert street, Philadelphia.

Building, South side Buran avenue, between Twenty-eighth and Twenty-ninth, Camden, N. J., $18,000. Architect, Clarence L. MacNelly, 864 Maple avenue, Collingswood, N. J. Owners, John E. Lingo & Son, Elm street, Camden, N. J. Brick, 1 story, 70x100 feet, slag roof, electric work. Contract awarded to Edward M. Jones, Jr., 318 York street, Camden, N. J.

Residences (2), 857-59 North Thirty-third street, Camden, N. J., $9,000. Architect, private plans. Owners, Newpher & McCloskey, 863 North Thirty-third street, Camden, N. J. Frame, 2 stories, 16x34 feet, slag roof, hot water heat, electric work. Contract awarded to J. W. McCloskey, King's Highway and Ormond avenue, Merchantville, N. J.

Residence, 112 North Thirty-fifth street, Camden, N. J., $5,000. Architect, private plans. Owner, Christian S. Stark, Sr., Camden, N. J. Frame, 1½ stories, 26x48 feet, rubberoid roof, hot water heat, electric light. Contract awarded to Thomas C. Tolbert, 5503 Westfield avenue, Pensauken, N. J.

Residences (10), 121-39 Eutaw street, Camden, N. J., $50,000. Architect, private plans. Owners, Lorigan-Hurley Co., Camden, N. J. Brick and block, 2 stories, 18x33 feet, slag roof, hot water heat, electric light. Contract awarded to George W. Rich, 2933 Westfield avenue, Camden, N. J.

Residences (6), 3067-77 Carmen street, Camden, N. J., $36,000. Architect, private plans. Owner, George Fox, care of builder. Brick and block, 2 stories, 18x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to James M. Phillips, 4502 Westfield avenue, Camden, N. J.

Building (add. and alts.), 555 Mickle street, Camden, N. J., $5,200. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owner, N. Mancini, 514 Broadway, Camden, N. J. Brick, 3 story add., 13x16 feet, slag roof, store front, undermining foundations, general alterations. Contract awarded to John C. Gibson, 611 Bailey street, Camden, N. J.

Residences (2), 468-70 North Thirty-fourth street, Camden, N. J., $8,400 total. Architect, private plans. Owner, Alfonso Verdi, 6145 West Girard avenue, Philadelphia. Frame, 2 stories, 15 feet 10½ inches x 49 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residence (add. and alts.) to Store, 1168 Haddon avenue, Camden, $3,500. Architect, private plans. Owner, Mrs. R. Greenbaum, on premises. Brick, 1 story add., 2x16 feet, lowering floors, removing porchz, new store front, flush bulks, general alterations. Contract awarded to Sol. J. Frisch, Clementon, N. J.

Building (add. and alts.), 348 Atlantic avenue, Camden, N. J., $2,600. Architect, private plans. Owner, Mary Bernard, 348 Atlantic avenue, Camden, N. J. Brick, 2 stories, 10x32 feet, slag roof, new flush bulks, general alterations. Contract awarded to Henry Jourdan, 604 Spruce street, Camden, N. J.

Residence, 570 North Thirty-fifth street, Camden, N. J., $4,400. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Noble Tyson, Camden, N. J. Frame, 2 stories, 24x26 feet, slate surface roof, hot water heat. Contract awarded to Griffin & Wagner, Stratford, N. J.

Miscellaneous Construction News

Shrine Chapel of Our Lady of the Rosary, Syracuse, N. Y. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Dominician Sisters of the Perpetual Rosary, Syracuse, N. Y. Brick, hollow tile, 47½x151 feet (heating reserved), electric light, felt and tile roof, wood floors, plumbing. Architect taking bids due June 10th.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Lowest bidders:

Contract 65, Kitts Hammock road, 3.10 miles. Smyrna Products Co., Smyrna, Del., $26,920.00.

Contract CN 19 D, Summit Bridge Approaches, .4 mile. F. W. Lovett, Newark, Del., $16,303.50.

Contract CS51, Delmar toward Columbia, 3.91 miles. Old Line Const. Co., Chestertown, Md. Stone, metal joint, $99,418.65; non-metal, $98,338.65. Slag, metal joint, $94,542.40. Non-metal, $93,462.40.

Contract CS52, Seaford Cutoff, .87 mile. Highway Eng. & Const. Co., Selbyville, Del. Sand asphalt, $18,851.00; stone, $22,766.25; slag, $22,436.25.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Owners taking bids due June 9th at 2 P. M. Certified check required. Deposit of $2.00 for plans (not refunded).

Contract CS48, Greenwood-Owen Station, 3.27 miles. Clearing, grubbing, excavation, borrow, cement concrete pavement or cement concrete pavement (slag aggregate) class A concrete, reinforcement, corrugated metal pipe, R. C. pipe, wood shoulder curb.

Store and Office Building (alts. and Add.), 1101 G Street, Washington, D. C. Architect, Harold Holmes, Detroit, Mich. Owner, S. S. Kresge Co., care of Mr. Taylor, B. Franklin Hotel, Phila. Electric light, steam heat, plumbing, elevators, 6 stories and basement, sprinkler system, shoring, dumbwaiters concrete and cement work, ironite waterproofing, brick work, granite, limestone, structural steel, miscellaneous iron work, iron stairs, Kinnear doors, tin clad doors, steel sash, carpentry and millwork, maple floors, metal store fronts, metal lath, plastering, built up roofing, ventilators, rolled steel skylights, tile, marble and terrazzo work, painting and glazinf, new fire tower. Owner has received bids.

Residence, Dark Harbor, Me., $50,000. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owner, Mrs. J. T. Atterbury, care of architect. Frame, 2½ stories, hot water heat, electric light, shingle roof, hardwood floors. Contract awarded Otto Nelson Co., Bangor, Me.

Bungalow and Garage, Rock Manor, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, H. F. Mellon, 809 Orange street, Wilmington, Del. Stone, 1½ stories, 30x50 feet, tile an dslate roof, hardwood floors, metal weather strip, tile work, electric work (heating reserved). Contract awarded to S. Cantera, 1911 West Ninth street, Wilmington, Del.

Nurses' Home, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Delaware Hospital, Fourteenth and Washington streets, Wilmington. Brick, steel, 4 stories and basement, 40x108 feet, built-up roof. Contract awarded to J. E. Healy & Sons, 707 Tatnall street, Wilmington, Del.

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
itectural Cast Cut Stone Co.....Westmont, N. J.

ARCHITECTURAL IRON WORK
ker City Art Metal Works,
2445 N. Second St., Phila.

ARTESIAN WELLS.
path & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
bins, Chas. H., Co. .....1729 Sansom St., Phila.
er, F., Co. .....125 S. 12th St., Phila.
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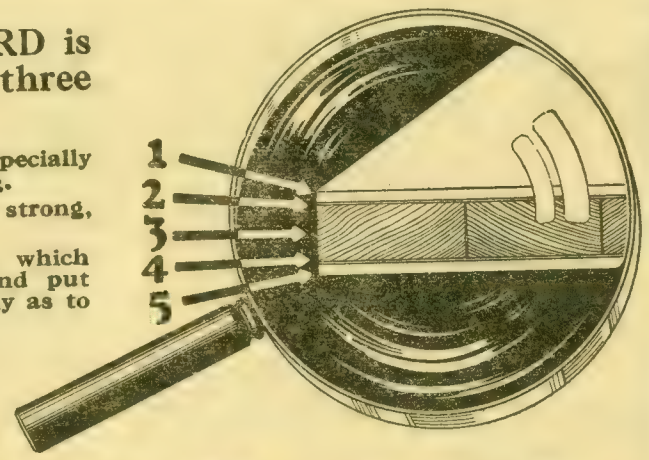
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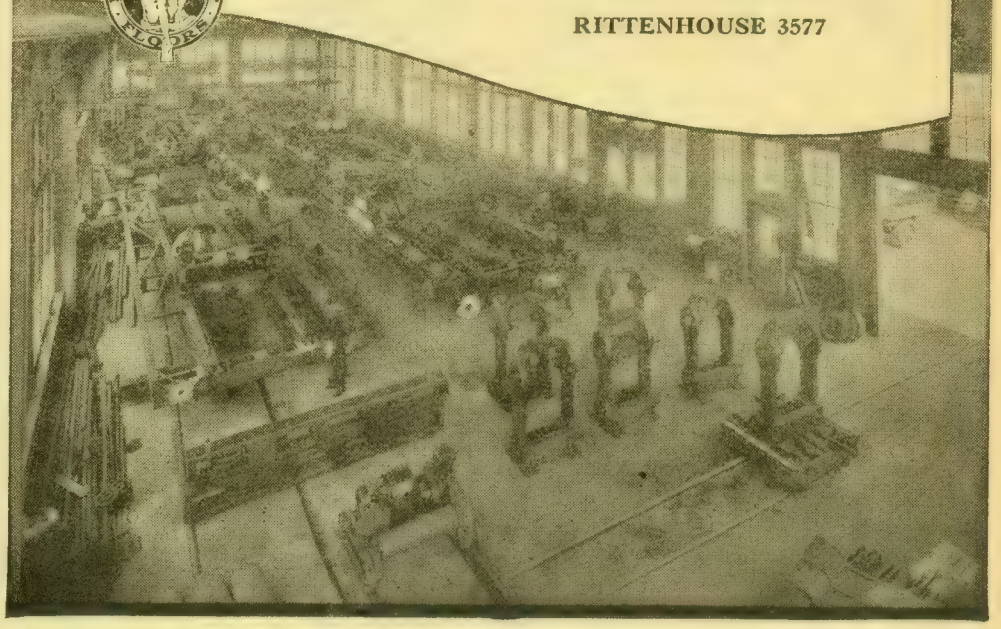
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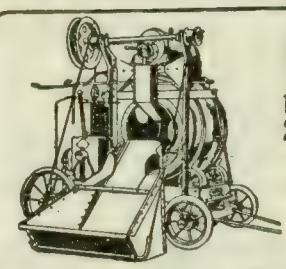
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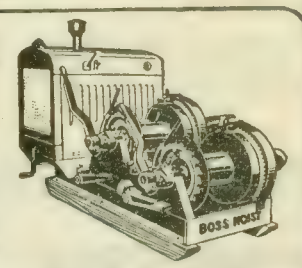
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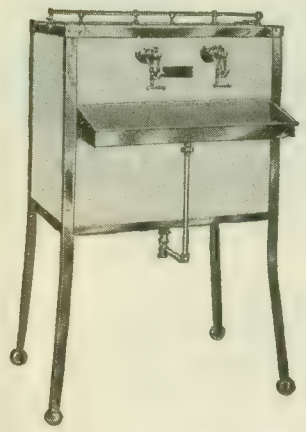
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BUILDERS' GUIDE

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As The Editor Sees It

STRENGTH OF MASONRY AT EARLY AGES

BY J. S. ELWELL,
Manager, Construction Department,
National Lime Association

Presented before the Building Officials' Conference, April 28th, 1926,
Columbus, Ohio.

Building officials, perhaps even more than any other group of men connected with construction, are interested in the early strength of masonry. There is an abundance of data showing how strong structures will be after a month or a year has passed, but until recently there has been very little information as to the strength of walls during the construction period.

The safety of our families is to a large measure in the hands of our building officials. To them is entrusted the task of reviewing and passing upon the designs for structures which will house our families and our businesses. They must make sure that the structure has sufficient strength to carry the loads during, as well as after, construction, as well as to see that reasonable precautions against fire are exercised.

Also, this group of men are in a large measure guardians of our pocket books. It might be possible to prepare a code which would make every structure safe against fire and storm, exceptionally severe loads, etc., etc., but this would only be possible under excessive costs, and as a result construction would come to a standstill and industry would be seriously handicapped. However, you gentlemen have within your power the right to permit economical construction, always seeing to it that such structures are safe.

Mortar enters into every type of construction to a greater or less degree. It may be used only in foundation walls, or in curtain walls which carry little if any load, or it may be the tie that binds the whole frame of a structure together. Consequently, data on masonry strength is vital.

A series of tests was recently completed at the Rock Island Arsenal, Col. D. M. King, Commanding, on the strength of wall specimens laid up in lime mortar. These tests, which were made by P. C. Cunnick, Director of the Laboratories there, were conducted at the ages of 1, 2, 3, 4, 5, 6, 7 and 28 days on specimens 8 inches thick, 16 inches long (4 headers) and 36 inches high (13 courses), and supplementary tests were also made on 2 and 3 brick specimens. The data secured is most interesting. All specimens were laid up with 3/8 inch mortar joints, all joints full, by the Arsenal bricklayers under the immediate supervision of the foreman, Mr. Foley, and represent good average practice. Clay brick, classed as "hard" under the A. S. T. M. requirements, were used throughout. Three types of 1:3 mortar were used.

In one group of tests the mortar was made from hydrated lime and sand mixed just before use, as might frequently be the case in the field. The other two mortars were made from lime putty and sand, the difference being that in one group the putty had been allowed to age for 3 days and in the other the ageing period was 14 days. All materials were obtained on the open market.

In order to determine how much settlement would occur under loads at these early ages a series of readings were taken on each specimen, the measurements being taken to 1/1000 of an inch and the loads which produced these deflections noted. The results are shown in Table I.

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TABLE I.

Loads Producing Given Deformations

8x16x36″ Wallettes

1:3 Lime Mortar

Mortar made from	Deformations of Wall per ft. of height	Average Load in Lbs. per Sq. In. age of Wallettes at Test							
		1	2	3	4	5	6	7	28
Hydrated	1/64″	33	30	40	40	50	40	55	105
Lime—	1/32″	75	60	75	75	90	80	98	180
Not Aged	1/16″	182	145	180	180	210	185	225	367
Lime Putty	1/64″	38						50	92
Aged—	1/32″	72						97	172
14 Days	1/16″	167						210	345
Lime Putty	1/64″	25	25	25	30	30	30	37	92
Aged—	1/32″	47	50	45	55	50	50	67	172
3 Days	1/16″	105	110	95	110	130	105	145	335

Loads recorded under 1, 7 and 28 days—6 specimens; 2, 3, 4, 5, 6 are 3 specimens

It will be seen that even at the age of 1 day it would require far greater loads than could be imposed on a wall to produce a settlement which could be noted. For quick computations, it is safe to say that each foot of wall produces a load of one pound per square inch. For example, to compress an 8″ wall 1 ft. high and 1 day old 1/64″ would require the erection of 30 ft. of wall during the next day. If the wall at the end of a day's work was 5 ft. high, it would require 6 ft. more wall laid up during the next day to produce a settlement of 1/64″ or 12 ft. more to show 1/32″ settlement.

These figures are of more theoretical than practical interest, for a grain of sand passing a 50 mesh screen is big enough to more than compensate for such a settlement and the ordinary mason's trowel is a full sixteenth of an inch thick. It would, therefore, be impossible to measure wall settlement on a regular piece of masonry construction, even when the walls are being rushed up. Considerably greater loads would be required to produce settlement in the wall if the loading was delayed even another day or two.

Inasmuch as factors other than pure compression enter into wall strength, tests of the shear strength of specimens laid up in these several mortars were also made. The specimens consisted of three bricks bonded together with two ordinary mortar joints. They were tested in the vertical position with the two outer brick supported on knife edges 3½″ apart and the load applied to the center brick through a spherical bearing block as specified by the A. S. T. M.

In these tests, as in the compression tests, the strength of the specimen increased with age, but even at the very early ages sufficient strength is developed to resist all ordinary forces. For example, at one day a single brick surrounded by mortar on 2 sides and 2 ends would have a resistance to displacement of 250 lbs. if laid in mortar made from hydrated lime; while at 28 days it would require a uniform pressure of 72.8 lbs. per sq. in. on the exposed face of a standard brick in a 4″ wall to force it loose.

Table II shows that at the age of one month these "wallettes" have a compressive resistance of nearly 800 lbs. per sq. in. Some time ago the U. S. Bureau of Standards ran a series of compressive strength tests on sand-lime brick walls, using both large sized specimens and "wallettes." These tests are reported in

(Continued on page 367))

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Hotel, 1309-11 Walnut street, Philadelphia. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owner, Bernard Dorf, care of architects. Preliminary sketches being drawn. Work contemplated. Too early for details.

House of Correction, Holmesburg, Pa. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Property, Bureau of Correction and Charities. Miscellaneous repairs and additions. Plans in progress.

Gym Building, Chestnut Hill, Pa. Architect, Arnold H. Moses, Camden, N. J. Owners, Springside School for Girls, Mrs. L. T. Chapman, on premises. Preliminary plans in progress.

Interior Finish of Building (first to fourteenth floors), Nineteenth and Arch streets, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, Jacob C. Kahn, Morris Building, Philadelphia. Cement work, hollow tile, bronze work, steel furniture, tile, bronze work, plastering, marble work, kalamein work, metal lath. Revised plans in progress.

Theatre, Northwest Corner Twenty-first and Market streets, Philadelphia. Architects, Hoffman & Henon, Finance Building, Philadelphia. Owners, The Stanley Company of America, 1916 Race street, Philadelphia. Brick, steel and concrete. Plans in progress. Too early for details.

Chapel, West School House lane, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Raven Hill Academy of the Assumption, Mother Elizabeth Dase, supervisor, on premises. Plans in progress.

Film Exchange Building, Northeast Corner Twelfth and Vine streets, Philadelphia. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owner, Claude S. Jarvis, 1211 Vine street, Philadelphia. Brick, limestone, 2 stories, 57x90 feet, slag roof, electric light. Plans in progress.

Store and Apartment, Northwest Corner Fourth and South streets, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owner, care of architect. Brick, steel, 3 stories, 17x58 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile and marble work, hollow metal skylights, store fixtures, bond, metal bulks, ornamental iron work, metal ceilings, cast stone. Plans in progress.

Store and Apartment, 5100 Germantown avenue, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owner, care of architect. Brick, steel, 3 stories, 18x93 feet, slag roof, maple and hardwood floors, steam heat, electric light, metal lath, tile and marble work, hollow metal skylights, store fixtures, bond, metal bulks, metal ceilings. Plans in progress.

Store and Apartments, 5151 Germantown avenue, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owner, care of architect. Brick, stone, steel, ' stories, '8x130 feet, slag roof, composition and maple floors, steam heat, electric light, metal lath, tile and marble work, hollow metal sash and skylights, store fixtures, bond, metal bulks, ornamental iron work, cast stone. Plans in progress.

Residences (25), Sixty-eighth avenue and Twentieth street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Louis Folscheid, 4734 Ella street, Philadelphia. Brick, 2 stories, 16x32 feet, slag, tile and slate roof, hardwood and pine floors, garages in basement, hot water heat, electric light. Plans in progress.

Apartment House, Ridge and Leverington avenues, Roxborough, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1432 South Penn Square, Philadelphia. Work contemplated.

Printing Plant (interior alts.), 2305-07-09 South street, Philadelphia. Owners, Paul W. Gibbons, Inc., 125 South Eleventh street, Philadelphia. Office partitions, painting, electric work, elevators. Plans in progress. Owners will take bids in one month.

Store and Office Building, Southeast Corner Seventeenth and Walnut streets, Philadelphia. Architect, Edwin Schoeppe, 1437 Spruce street, Philadelphia. Owner, W. M. Horner, Bryn Mawr, Pa. Brick, limestone, steel, 2 stories and basement, 114x20 feet, wing 50x20 feet, vapor heat, electric light, metal lath, tile work, slag roof, composition and cement floors, painting and glazing, plumbing, ornamental eerra cotta, ornamental iron work, demolition, sprinkler system, plate glass. Architect taking bids due June 16th at noon.

Building, Northeast Corner Fifth and Olney avenue, Philadelphia. Architects, Silverman & Levy, Real Estate Trust Building, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1432 South Penn Square, Philadelphia. Revised plans in progress. Architects will be ready for bids in one week.

Bank Building, Southwest Corner Broad and Nedro avenue, Philadelphia. Architects, Simon, Brittain & English, Inc., 929 Chestnut street, Philadelphia. Owners, Fern Rock Trust Co., S. B. Davis, Southeast Corner Broad and Nedro Ave, Phila. Brick, stone, 2 stories, 28x48 feet. Plans about completed. Architects will be ready for bids in a few days.

Building (alts. and add.), 3313 North Broad street, Philadelphia. Architects, Thalheimer & Weiss, 10 South Eighteenth street, Philadelphia. Owners, North Philadelphia Realty Board, Mr. Thomas, on premises. Ready for bids in a few days.

Residences (53), Twentieth street and Rittenhouse street, Germantown, Philadelphia. Architect, E. Allen Wilson 208 Chestnut St., Philadelphia. Owner, J. Henry Parker, 5583 Old York road, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work, garages in basement. Owner taking sub-bids.

Residences .36), Fox and Westmoreland streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, H. C. Irvin, 206 South Seventh street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work, garages in basement. Owner ready for sub-bids.

Garage, Southwest Corner Twelfth and Louden streets, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, M. Lipschutz, care of architect. Brick, steel, 2 stories, 20x93 feet, slag roof, concrete and maple floors, steam heat, electric light, steel sash, steel rolling doors, plumbing, wood bulks. Architect taking sub-bids due at once.

Residences (50), Aldine and Leon streets, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Harry Bobb, 6232 Cedar avenue, Philadelphia. Brick, 2 stories, 16x48 feet, hot water heat, electric light ,tile work, slag roof, hardwood floors, garages in basement. Owner ready for sub-bids.

Residences (20), Hunting Park avenue and Leiper street, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, Olmi Brothers, 1530 South Fifteenth street, Philadelphia. Brick, 2 stories, (1) 16x38 feet, 15x38 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, garages in basement. Owners ready for sub-bids.

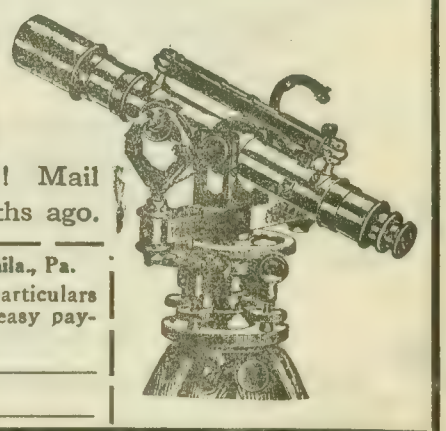
Stores (alts.), 1024 Chestnut street, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Jacobs Brothers, on premises. Bond, demolition, brick work, iron work, plastering, metal ceilings, marble and terrazzo work, carpentry and mill work, plumbing, electric work. Architect taking sub-bids due at once.

Miscellaneous Equipment, Philadelphia. Owners, Pennsylvania Railroad, Montgomery Smith, Northwest Corner Seventeenth and Filbert streets, Philadelphia. Owners taking bids due June 15th before noon.

Residences (9), South side Higbee avenue, East of Twenty-first street, $50,500. Archi-

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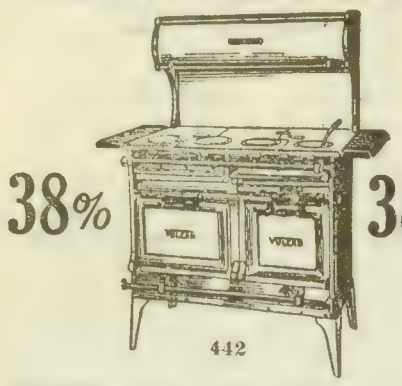
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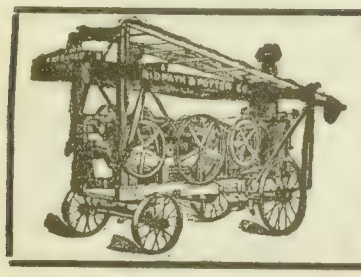
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tect, private plans. Owners, Jarinkes, Machein & Person, 4130 Leidy avenue, Philadelphia. Brick, 2 stories, 15x27 feet, 11x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, South side Fanshawe street, East of Oakley street, Philadelphia, $5,500. Architect, private plans. Owner, Michael Faix, 2917 Ella street, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (33), Independence street, East of Twenty-first street, $3,500 each. Architect, private plans. Owner, George Ungerer, 6750 York road, Philadelphia. Brick, 2 stories, 14x26 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Garage, 5809-11 Torresdale avenue, Philadelphia, $2,500. Architect, private plans. Owners, A. Newton & Co., Inc., on premises. Brick, 1 story, 79x28 feet, slag roof, cement floors, electric light. Permit granted.

Residence and Store (alts.), Northeast Corner Broad and Silver streets, $2,000. Architect, private plans. Owner, F. H. Stahle, 2711 North Park avenue, Philadelphia. General alterations. Permit granted.

Refreshment Stands (2), Sesqui Grounds, Philadelphia, $6,000 total. Architect, private plans. Owners, Emerson Drug Co., Irving Seltzer Building, Baltimore, Md. Frame, 1 story, 10x31 feet. Permit granted.

Residences (2), South side Fisher avenue, West of Hoff street, $3,000 each. Architect, private plans. Owner, Grace S. Crossley, Southwest Corner Fisher's avenue and Hoff street. Frame, 2 stories, 16x38 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Apartment House, 4317-21 Spruce street, Philadelphia, $310,000. Architect, private plans. Owner, Samuel S. Silverman, 803 Land Title Building, Philadelphia. Brick, 4 stories, 50x26 feet, 34x161 feet, slag roof, hardwood, pine and cement floors, steam heat, electric light, tile work. Permit granted,

Residence, South side Oriole street, West of Ridge avenue, Philadelphia, $7,000. Architect, private plans. Owners, G. L. and J. K. Callahan, 542 East Fairthorne street, Philadelphia. Frame, 2 stories, 16x16 feet, 26x16 feet, hardwood and pine floors, hot water heat, electric light. Permit granted.

Garage, West side Camac street, North of Somerville street, $7,000. Architect, private plans. Owner, Wilhelm J. Baltz, Sixty-sixth and Lawnton avenue, Philadelphia. Brick, 1 story, 85 feet 8 inches x 37 feet, slag roof, cement floors, electric light. Permit granted.

Residences (2), South side Napfle street, West of Verree road, $5,000 each. Architect, private plans. Owner, Edwin Darr, 7301 Oxford pike, Philadelphia. Brick, 2 stories, 26x38 feet, hardwood and pine floors, hot water heat, electric light. Permit granted.

Supplies, Philadelphia. Purchasing agent, E. J. Lafferty, 312 City Hall, taking bids due June 15th at 11 A. M. (Standard Time). Certified check 5 per cent. of bid. Tire iron, hardware, pipe and fittings.

Miscellaneous School Work, Philadelphia (low bidders). Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Newton School, I. Demarest, 10 South Eighteenth street, Philadelphia, $7,694; Haverstick & Borthwick, Schaff Building, Philadelphia, $8,680; plumbing, S. Faith & Son, 2427 Pennsylvania avenue, Philadelphia, $5,072; heating, A. McClintock & Son, 1937 Ridge avenue, $233. No. 112, general, William Langhorne, 10 South Eighteenth street, $1,250; Mitchell Brothers, 2125 Race street, Philadelphia, $1,300. No. 121, heating, Philadelphia Pipe & Piping Co., 1605 Rockland street, $1,030. No. 122, heating, McClintock & Son, 1937 Ridge avenue, $351. No. 123, heating, Philadelphia Pipe & Piping Co., 1605 Rockland street, $560. No. 124, McClintock & Son, 1937 Ridge avenue, $1,130. No. 125, heating, McClintock & Son, 1937 Ridge avenue, $1,167.80. No. 126, heating, Philadelphia Pipe & Piping Co., 1605 Rockland street, $453. No. 127, heating, Thompson Brothers, 512 Buttonwood street, $879. No. 128, heating, McClintock & Son, 1937 Ridge avenue, $1,573. No. 129, heating, McClintock & Co., 5608 Race street, $944. No. 130, heating, McClintock & Co., 5608 Race street, $3,412. No. 131, Haverstick & Borthwick, Schaff Building, Philadelphia, $3,950. No. 132, plumbing, D. J. Keating, 2042 Rittenhouse street, $800. No. 140, boilers, McClintock & Son, 1937 Ridge avenue, $7,695, $9,160; McClintock & Co., 5608 Race street, Philadelphia, $8,595, $7,920. No. 142, E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia, $2,107; Mitchell Brothers, 2125 Race street, Philadelphia, $2,248. No. 146, new boilers, Connery Co., Second and Luzerne, $22,619. No. 147, McClintock & Co., 5608 Race street, Philadelphia, $7,965.56. No. 157, painting, John J. Murphy, 1835 Ludlow street, $2,090. No. 159, painting, H. W. Ehinger, Sixth and Duncannon streets, $1,920. No. 162, painting, H. W. Ehringer, Sixth and Duncannon streets, $2,970.

Parish House, Oak Road, between School Lane and Midvale Avenue, Germantown. Architect, C. A. Ziegler, 1012 Walnut St., Phila. Owner, Church of the Good Shepherd, Rev.

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Residence and Garage, Chestnut Hill, Pa. Arcihtect, Geo. S. Idell, 1510 Chestnut St., Phila. Owner, Jacob S. Disston, Chestnut Hill, Pa. Architect taking bids due June 14th 10 A. M. on plumbing, heating and roofing.

Residences (26), North side Wellington St., West of Leon St., $118,000. Architect, private plans. Owner, W. B. Davenport, 6612 Wayne Ave., Phila. Brick, 2 stories, 16x27 feet, 12x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Garage, 1253-55-57 E. Chelten Ave., Phila. $60,000. Architect, private plans. Owner, A. Leihowitz, 1112 Franklin Trust Bldg., Phila. Brick 1 story, 60x124 feet, slag roof, cement floors, electric light. Permit granted.

Residences (5), East side Devon St., South of Moreland St., $3,000 each. Arichitect, private plans. Owners, Felix & Mejaron, 92 Collom St., Phila. Brick and block, 2 stories, 17x33 feet, slag roof, pine floors, electric light. Permit granted.

Synagogue, Larchwood and Seaford, Phila. Architect, Sol Kaplan, 10 S. 10th St., Phila. Owner, Cong. Sinath Hazedek, care Morris Cooper Smith, 5930 Larchwood. General alterations. Owner taking bids.

Restaurant Building, 219 S. Broad Street, Phila. Architect, Ralph Bencker, Bellevue Ct. Bldg., Phila. Owner, Horn & Hardart Baking Co., 214 S. 10th St., Phila. Brick, steel, limestone, 3 stories and basement, 33x136 feet, slag roof, cement floors, stea mheat, electric light, metal lath, tile and marble workf ornamental iron work. Architect taking bids due June 15th.

Store Building (Alts.), 1318 Chestnut St., Phila. Architects, Simon & Simon 249 S. Juniper St., Phila. Owner, Hanan & Son, on premises. Brick work, bronze work, cut stone, concrete and cement work, cabinet work, demolition, electric work, hardware, steam heat, leaded glass, miscellaneous iron work, marble work, millwork, plastering, painting and glazing. Architect taking bids due June 11th.

Alterations and Additions, 310 Spruce St., Phila. Architect, Solomon Kaplan, 10 S. 18th St., Phila. Owner, Samuel Brier Co., on premises. Demolition, brick work, rolling steel doors, structural steel, steel sash, carpentry and millwork, slag roof repairs, electric work, painting and glazing, hardware, plumbing. Architect taking bids due June 10th.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Ilinois Building, Sesqui Grounds, Phila., $50,000. Owner, State of Illinois, Springfield, Ill. Frame, 1 story, 60x100 feet. Contract awarded to Otto Randolph, Inc., Chicago, Ill.

Garage and Shop, 704 Oak Lane Ave., Phila. Architect, private plans. Owner, C. H. Anthony, 6709 N. 7th St., Phila. Brick, 2 stories, 16 feet by irregular, slag roof, cement floors. Contract awarded to S. G. Humphreys, 1914 N. 13th St., Phila.

Factory (Add.), 1302 N. Perth St., Phila., $2,000. Architect, private plans. Owners, Thos. Miles & Bros., Inc., 1306 N. Perth St., Phila. Tank. Contract awarded to G. Woolford Tank Co., Paschall P. O., Phila.

Store and Apartment (Alts. and add.), 1628 Fairmount Avenue, Phila. Architect, Wm. F. D. Koelle, Otis Bldg., Phila. Owner, Thos. H. Minich, N. American Bldg., Phila. General alterations and additions. Contract awarded to T. R. Cubbin Const. Co., 652 N. 17th St., Phila.

Basement Church, 3403-10 Devereaux St., Phila. Architect, private palns. Owner, Christian Mission Alliance Church, Walter Erb, 6628 Jackson St. Stone, 1 story and basement, 33x53 feet, slag roof, cement floors, plumbing, electric light. Contract awarded I. Demarest, 10 S. 18th St., Phila.

Factory, Fifty-seventh and Lancaster avenue, Philadelphia. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owners, John M. Driver Co., 1634 North Fifty-fifth street, Philadelphia. Brick, reinforced concrete, steel, cast stone, 1 and 2 stories, 275x81 feet, asbestos built-up roof, cement floors, painting and glazing, roof ventilators, waterproofing, ornamental iron work, hollow metal doors, rolled steel sash and shutters, sprinkler system. Contract awarded R. P. Whitty, Union Trust Building, Washington, D. C.

Apartment House, Southeast Corner Forty-sixth and Spruce streets, Philadelphia. Architect, Charles Oelschlager, 1615 Walnut street, Philadelphia. Owner, name withheld. Brick, steel, 4 stories and basement, 75x125 feet, slag roof, oak and pine and cement floors, steam heat, electric light, metal lath, tile work. Contract awarded E. J. Kreitzburg, 1333 Arch street, Philadelphia, who is taking sub-bids.

Warehouse (add.), Northwest Corner Twelfth and Washington avenue, Philadel-

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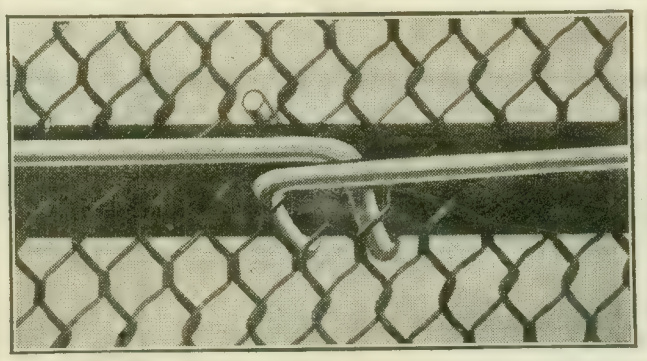
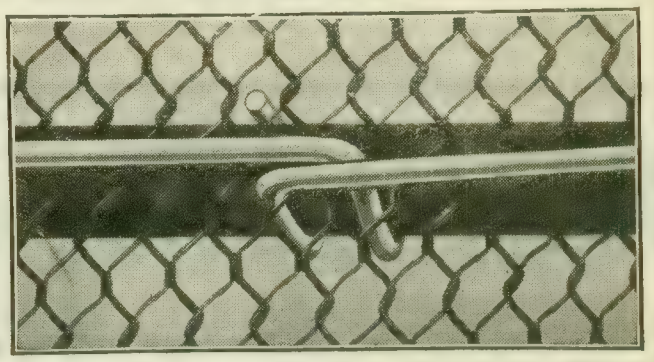
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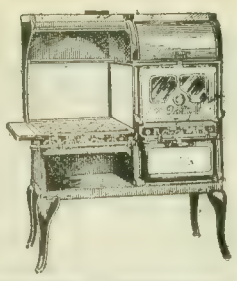
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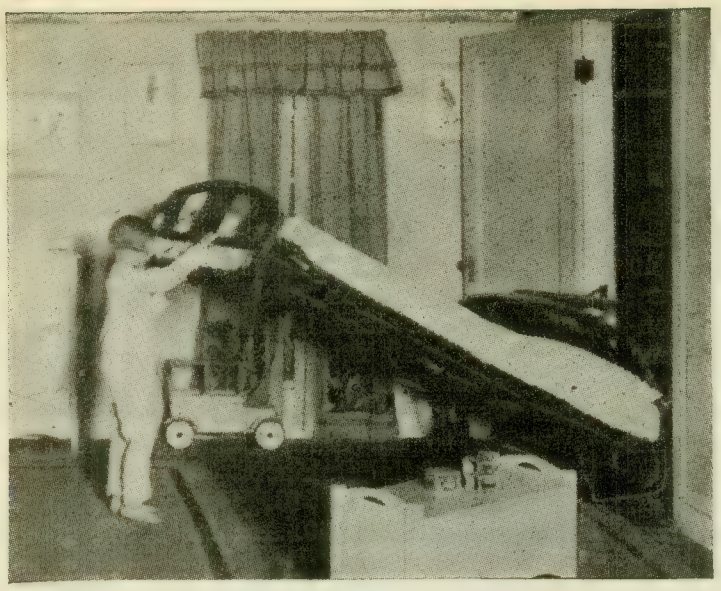
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phia. Architects, F. C. Roberts & Co., Real Estate Trust Building, Philadelphia. Owners, Curtis Publishing Co., H. K. Curtis, president, Independence Square, Philadelphia. Brick, steel, 1 story addition, slag roof, cement floors. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia, without competition. Plans in progress.

Church, Pulaski avenue near Penn street, Germantown, $50,000. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owners, Faith Presbyterian Church, Rev. Lewis Baxter Moore, 2232 Master street. Stone, 1 story, balcony and basement, 28x78 feet, slag roof, pine floors, hot water heat, electric light, metal lath, rolled steel sash, bond. Contract awarded Albert Shatten, Land Title Building, Philadelphia.

Residence and Garage, Norman lane, Chestnut Hill, Pa. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owner, John H. Bassett, 139 Carpenter street, Germantown, Philadelphia. Stone, cut stone, 2½ stories and basement, 65x50 feet, slate roof, oak and pine floors, plumbing, electric light, flagstone. Contract awarded F. G. Stewart, 1520 Locust street, Pihladelphia.

Rebuilding Coal Yard, Eleventh and Callowhill streets, Philadelphia. Architect, Samuel T. Wagner, Reading Terminal Building, Philadelphia. Owners, Philadelphia & Reading Railroad, Twelfth and Market streets, Philadelphia. Concrete steel coal trestle, 312 feet long, 5 concrete silos, 20 feet diameter, 40 feet high, bond, ornamental iron work, structural steel, corrugated asbestos roofing. Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia.

Residence (alts.), Southwest Corner Eighth and Columbia avenue, Philadelphia. Architect, private plans. Owner, name withheld. New store front, hot water heat, plumbing, mill work, metal cornices, plate glass, interior changes. Contract awarded Albert Shatten, Land Title Building, Philadelphia, who is taking sub-bids due as soon as possible.

Residence (alts.), Southwest Corner Fifth and Berks streets, Philadelphia. Architect, private plans. Owner, name withheld. New store front, metal cornices, plate glass, interior changes. Contract awarded Albert Shatten, Land Title Building, Philadelphia, who is taking sub-bids due as soon as possible.

Church and Sunday School, Ridge avenue and Lyceum avenue, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Roxborough Baptist Church, J. Foster Wilcox, 467 Gerhardt street, Philadelphia. Brick, stone, cut stone, steel, 2 stories and basement, 85x65 feet, Vermont slate roof, oak and pine floors, electric light, metal lath, rolled steel skylights, ornamental iron work, plumbing, ventilators, Duraflex and Wagnerside floors. Contract awarded Roy Randall, Jenkintown, Pa., $125,000.

Manufacturing Building, Van Dyke, West of Paul street, Philadelphia. Architect, C. E. Wunder, 1520 Locust street, Philadelphia. Owners, Schneider-Bowman Co., Inc., on premises. Reinforced concrete steel, 2 stories, 100x100 feet (heating and electric reserved), gypsum roof, concrete floors, metal sash, demolition and excavation. Contract awarded Paul Brosz, 2511 West Huntingdon street, Philadelphia.

City Hall Annex, Juniper and Filbert streets, Philadelphia. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Works, Bureau of City Property, City Hall. Contract awarded on electric to Ellis McCandless, 2318 Sansom street, Philadelphia, $167,300.

Hotel (alts.), 1243 Kater street, Philadelphia, $4,000. Architect, private plans. Owner, Charles Lorber, 705 Chestnut street, Philadelphia. General alterations. Contract awarded to Joseph Kirschbaum, 725 Cherry street, Philadelphia.

Barn, North side School lane, West of Wissahickon avenue, $2,500. Architect, private plans. Owner, Walter E. Knipe, School lane and Wissahickon avenue, Philadelphia. Stone, 2 stories, 22x60 feet. Contract awarded to K. M. DeVos & Co., on premises.

Fire Station, Sesqui Grounds, Philadelphia. Architect, John Molitor, Bankers' Trust Building, Philadelphia. Owners, Sesqui-Centennial Association, Broad and Oregon avenue, Philadelphia. Metal lath, brick, stucco, steel, 1 story, 80x40 feet, slag roof, cement floors, roof ventilators, dampproofing, galvanized iron skylights, ornamental iron. Contract awarded to Haverstick & Borthwick, Schaff Building, Philadelphia.

Factory (add.), 5109 Germantown avenue, Philadelphia, $15,000. Architect, private plans. Owners, National Drug Co., Stenton and Wyoming avenues, Philadelphia. Brick, 3 stories add., 31x29 feet. Contract awarded to Thomas M. Keeley, 4411 Germantown avenue.

Store and Residence (add. and alts.), 2234 Ridge avenue, $4,500. Architect, private plans. Owner, Rebecca Toplitzky, 1530 North Thirty-third street, Philadelphia. Brick, 1 story add,, 16x12 feet, general alterations. Contract awarded to Sol. Getz, 4837 North Eleventh street, Philadelphia.

Residence (add. and alts.), 233 Allen lane, Chestnut Hill, Pa., $4,000. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owner, J. L. Landenberger, on premises. Brick, 2 stories add., irregular size, general alterations. Contract awarded to J. W. Moffley, Jr., 515 Mt. Airy avenue, Philadelphia.

French Restaurant, Sesqui Grounds, Philadelphia, $4,000. Architect, private plans. Owner, D. Arditi, 1315 South Broad street, Philadelphia. Frame, 1 story, 50x70 feet. Contract awarded to H. A. Rose, Jenkintown, Pa.

Storage Building (alts.), 1226 Leopard street, Philadelphia, $4,000. Architect, private plans. Owners, Scherlis & Katz, 2008 Presbury street, Baltimore, Md. General alterations. Contract awarded to Robert O. Herring, Eastern avenue and Eden street, Baltimore, Md.

Residence (add.), 1423 South Fifty-eighth street, $2,300. Owner, W. B. Apel, on premises. Brick, 1 story, 13x11 feet, slag roof, pine floors, electric work. Contract awarded to G. Adams, 5905 Chester avenue, Philadelphia.

Garage, 3323 North Goodman street, Philadelphia, $3,000. Architect, privaee plans. Owner, Samuel V. Smith, 3317 Goodman street, Philadelphia. Brick, 1 story, 48x36 feet, slag roof, cement floors, electric work. Contract awarded to Stewart Brothers, 2526 North Orkney street, Philadelphia.

Manufacturing Building (add.), 239 Dock street, Philadelphia, $2,000. Owner, George A. Lippincott, 238 Ionic street, Philadelphia. Tank. Contract awarded to F. G. English & Sons, 1608 North Carlisle street.

Store and Storage, 1719 Chestnut street, Philadelphia, $40,000. Architect, private plans. Owner, James Judoruh, 3300 Bangor street, Philadelphia. Brick, 3 stories, 29x115 feet, slag roof, electrical work. Contract awarded to Barnett Co., 519 Pennsylvania Building, Philadelphia.

Exhibit Building, Sesqui Grounds, Philadelphia. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owners, Westinghouse Electric Co., Thirtieth and Locust streets, Philadelphia. Contract awarded E. E. Hol-

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lenback, Inc., 1804 Brandywine street, Philadelphia.

Kensington Recreation Center, Blair and Montgomery avenue, Philadelphia. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Bureau of Recreation, Department of Public Works, 595 City Hall. Brick, steel, 2 stories add., 61x34 feet (plumbing, heating, electric separate), tin roof, pine floors, painting and glazing, hollow metal sash and doors, bond, ornamental iron work, architectural terra cotta. Contract awarded E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia, $16,496.

Garage (add.), 1510-14 Latimer street, Philadelphia, $20,000. Architect, private plans. Owner, H. C. Hollinger, on premises. Brick, fourth and fifth stories add., 66x110 feet, slag roof, cement floors. Contract awarded to W. S. Gore, Sixty-second and Media streets, Philadelphia.

Residence (add.), Southwest Corner Evergreen and Stenton avenues, $7,100. Architect, private plans. Owner, Louis C. Madera, 3rd, on premises. Stone, 2 stories add., slate roof, 15 feet 9 inches x 26 feet, electric work. Contract awarded to John E. Walt, 204 East Willow Grove avenue, Philadelphia.

Residence and Store, 2027 Master street, Philadelphia, $5,000. Architect, private plans. Owner, Warren Elbrom, on premises. Brick, 3 stories, 16x39 feet, 9x16 feet, hot water heat, electric light, slag roof, pine floors. Contract awarded to Steingon & Shore, 639 West Moyamensing avenue.

Residence and Store (alts.), 7984 Oxford pike, Philadelphia, $4,000. Architect, private plans. Owner, Arthur B. Crossan, on premises. General alterations. Contract awarded to William F. Lotz, 4644 Frankford avenue, Philadelphia.

Store and Residence (alts.), 2839 Germantown avenue, Philadelphia, $4,000. Architect, private plans. Owner, George Eichenhoffer, 2835 Germantown avenue, Philadelphia. General alterations. Contract awarded to Joseph Maulbecker, 2653 North Bancroft street.

Residence and Store (alts.), 2200-02 South Seventh street, Philadelphia, $2,200 each. Architect, private plans. Owner, Louis Cohen, 2000 South Seventh street, Philadelphia. General alterations. Contract awarded to M. Gases, 751 North Fortieth street, Philadelphia.

Residence and Store (alts.), 4910 Baltimore avenue, Philadelphia, $2,000. Architect, private plans. Owner, George Gross, 4914 Baltimore avenue, Philadelphia. General alterations. Contract awarded to Thomas Strachan, 5108 Hadfield street, Philadelphia.

Store (fire repairs), 918 Chestnut street, Philadelphia, $12,500. Architect, private plans. Owners, Dickson Estate, on premises. General fire repairs. Contract awarded to F. B. Davis & Son, 240 North Sixteenth street, Philadelphia.

Store (alts.), 1113-15 Chestnut street, Philadelphia, $7,500. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owners, Girard Estate; lessee, Forbes, on premises. General alterations. Contract awarded to J. J. O'Neill, 629 Chestnut street, Philadelphia.

Office (alts.), 306 Walnut street, Philadelphia, $7,500. Architect, private plans. Owners, Royal Insurance Co., on premises. General alterations. Contract awarded to F. B. Davis & Son, 240 North Sixteenth street, Philadelphia.

Store and Residence (add. and alts.), 6412 Woodland avenue, $4,200. Architect, private plans. Owner, James Farley, 6415 Woodland avenue, Philadelphia. Brick, 1 story add., 16x15 feet, general alterations. Contract awarded to M. B. Stackhouse, 6717 Yocum street.

Residences (14), Ann street, Agate and Memphis streets, Philadelphia, $4,000 each. Architect, private plans. Owner, Joseph K. Corll, 5450 Germantown avenue, Philadelphia. Brick, 2 stories, 15x20 feet, 12x8 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to John J. McDonnell, 5133 North Fifth street, Philadelphia.

Store and Office (alts.), 133 South Eighteenth street, Philadelphia, $3,200. Architect, private plans. Owner, Elizabeth Arden, 133 South Eighteenth street, Philadelphia. General alterations. Contract awarded to F. M. Berg, 208 North Thirty-third street, Philadelphia.

Pennsylvania Construction News

School (Alts. and add.), Wayne, Pa. Architect, I. T. Cathering, Franklin Trust Bldg., Phila. Owner, Board of School Directors, Radnor Twp., Pa. Bond, demolition, cement and concrete work, structural steel, brick work, iron and brass work, carpentry and millwork, sheet metal work, metal lath, plastering, slate work, painting and glazing, hardware (plumbing, heating, electric, separate bids). Owner taking bids due June 10th.

Residence, Hazleton, Pa., Architect, Charles O. Beck, 872 Church St., Hazleton, Pa. Owner, Harry Scott, 616 Alter St., Hazleton, Pa. Frame, 2½ stories, 24x36 feet. Architect ready for bids.

Theatre, Stores (16), Apartments (24), Sixty-ninth and Ashby road, Upper Darby, Pa., $750,000. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owners, Corporation, care of William M. Knatz, Inc., Upper Darby, Pa. Brick, steel, stone, 1 story and 2 stories and basement, 120x180x190 feet, slag roof, cement floors, electric light, hardwood floors. Plans in progress.

Drayton Hall (alts. and add.), Georges School, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Georges School ,on premises. New fire tower and toilet rooms, brick, steel, concrete, fire escapes, limestone trip, 4 stories, 25x35 feet, iron railings. Preliminary plans being drawn.

Church and School, Allentown, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Catherine of Sienna, Rector C. C. Thalen, 206 North Eighteenth street, Allentown. Brick, 2 stories, 60x190 feet. Plans in progress.

School Building, Flourtown, Pa. Architect, Albert R. Kelsey, Otis Building, Philadelphia. Owners, Carson College for Girls, Flourtown, Pa. Stone, 2½ stories, slate roof. Plans in progress. Details undecided.

High School, Elkins Park, Pa. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, School Board of Cheltenham Township, C. M. Doll, Elkins Park. Preliminary plans drawn.

Telephone Exchange, Prospect, Broad and Spring streets, Nanticoke, Pa. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Brick, steel, 2 stories, 30x40 feet. Plans in progress.

Hospital (add.), Fourth and Walnut streets, Lebanon, Pa. Architects, Bissell & Sinkler, 1520 Locust street, Philadelphia. Owners, Good Samaritan Hospital, Lebanon, Pa. Brick, 1 story and basement. Plans in progress.

Residence (alts. and add.), Muncy, Pa., $75,000. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, name withheld. Stone, 2½ stories. Plans in progress.

Residence (alts. and add.), Radnor, Pa. Architect, R. Brognard Okie, 306 South Smedley

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street, Philadelphia. Owner, Mrs. Andrew Van Pelt, care of architect. Stone, 2½ stories, 35x80 feet. Plans in progress. Will be ready for bids in two weeks.

Residence, Wallingford, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, William Clarke, care of architect. Frame and stucco, 2½ stories, 32x70 feet. Plans in progress.

Residence, Reading, Pa. Architects, Scholl & Richardson, Fifth and Walnut streets, Reading, Pa. Owner, Dr. John H. Rorke, 342 North Fifth street, Reading, Pa. Seone, 2 stories, 25x50 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

School (add.), Pottstown, Pa. Architects, Scholl & Richardson, Fifth and Walnut streets, Reading, Pa. Owners, School District of Coventry Township, Mr. Haws, Pottstown, Pa. Brick, 2 stories, 50x60 feet, slate roof, pine floors (heating, plumbing and electric separate). Plans in progress.

Residence (alts. and add.), Elkins Park, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, P. L. Lenning, Elkins Park, Pa. Frame, 2½ stories. Plans in progress.

Theatre (alts.), Peckville, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owner, J. Faveini, Jessup, Pa. General alterations. Plans in progress.

Y. M. C. A. Building (add.), Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Y. M. C. A., 9 West Orange street, Lancaster, Pa. Fireproof, 4 stories, 69x60 feet, hardwood floors, hollow tile, roof ventilators, heating extension, metal lath, tile and marble, fire doors, ornamental iron. Architect will take bids in ten days.

Community Center, Womelsdorf, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owner, A. A. Daub, Womelsdorf, Pa. Cinder block, 1 story an dbasement, 50x86 feet, built-up roof, pine floors, electric light, steel sash. Owner will take bids.

Bank, Saltsburg, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, First National Bank of Saltsburg, H. F. Carson, president, Saltsburg, Pa. Limestone, marble, 1 story, 40x60 feet, steam heat, electric light, tile and marble, bronze, vault, ornamental iron. Architects ready for bids.

Stores (2) and Apartments, Third and Main streets, Darby, Pa. Architect, M. M. Boonin, 17 South Seventeenth street, Philadelphia. Owner, Julius Berman, 6019 Market street, Philadelphia. Brick, 2½ stories, (1) 16x57 feet 6 inches, (1) 22x70 feet, slag roof, oak and pine floors, hot water heat, electric light, flush bulks. Owner taking sub-bids due as soon as possible.

Parochial School, Glenolden, Pa. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. George's Roman Catholic Church, Rev. George E. Orr, Glenolden, Pa. Brick, cut stone, limestone, 2 stories and basement, asphalt shingle roof, composition, cement and maple floors, plumbing, metal ceilings, rolled steel sash, ornamental iron work, electric light, shoring. Revised plans being drawn. Architect will be ready for new bids in one week.

Residence, Lancaster, Pa. Architect, Lamont H. Button, Fitzsimmons Building, Pittsburgh, Pa. Owner, George E. Schultz, 721 College avenue, Lancaster, Pa. Stone, 2 stories. Owner will be ready for bids in a week.

Residence and Garage, Wynnewood, Pa. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 28x20 feet, 22x24 feet, slate roof, hardwood and cement floors, hot water heat, electric light, tile and marble work. Architect will be ready for bids in a few weeks.

Theatre, Northeast Corner Lansdowne and Baltimore avenues, Lansdowne, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Harrison Brothers, Bryn Mawr, Pa. Brick, steel, stucco, 1 and 2 stories, 80x220 feet, tile and built-up roof, linoleum and cement floors, hollow tile, plumbing, integral waterproofing, architectural terra cotta, rubber tile floors, metal toilet partitions, demolition, composition floors, metal store front, ornamental iron work, iron stairs, floor hardener, tin-clad and kalamein doors, bond, rolled steel sash, tile, marble and terrazzo work, metal lath, vacuum heat, electric light. Owners will build.

Residence (alts.), Meadowbrook, Pa. Architects, De Armond, Ashmead & Bickley, 20 South Fifteenth street, Philadelphia. Owner, Spencer K. Mulford, on premises. General alterations, shingle roof, hardwood floors, heating, electric light, tile work, metal casements, mill work, plastering. Architects taking sub-bids due June 11th.

Houstonville School (add.), South Coatesville, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, South Coatesville School Board, care of architect. Brick, steel, 3 stories, 60x80 feet, 50x60 feet, slate roof, maple floors, safety treads, roof ventilators, iron stairs, rolled steel sash, metal lath (heating, plumbing and electric work separate bids). Architect ready for bids due June 23rd.

Masonic Temple, Lewistown, Pa. Architects, Hersch & Schollar, Commerce Building, Altoona, Pa. Owners, F. and A. M., No. 370, B. E. Miller, secretary, Lewistown, Pa. Brick, limestone, 3 stories and basement, 76x48 feet. Architects will be ready for bids about June 13th 1926.

Residence, Lime street, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, Dr. C. H. Witmer, 126 East Chestnut street, Lancaster, Pa. Stone, stucco, 3 stories, 67x30 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Architect taking bids.

School (alts.), Norristown, Pa. Architect, private plans. Owners, School District of Norristown, H. R. Kratz, secretary; W. J. Clarke, chairman of Property Committee. Heating, plumbing, cement work, carpentry, painting, general repairs. Certified check 5 per cent. Owners taking bids due June 15th at noon. Plans may be obtained from secretary, De-Kalb and Oak streets, Norristown, Pa.

School, Auditorium and Chapel, Steelton, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, St. James' Roman Catholic Church, Rev. J. C. Thompson, Steelton, Pa. Brick, steel, 2 stories, 107x35 feet, 50x80 feet, composition and slate roof, maple floors, hollow tile, roof ventilators, vapor heat, electric light, metal lath, steel sash and skylights. Architect taking bids due June 14th.

High School, Northampton, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Northampton School Board, care of architect. Brick, steel, 2 stories, 115x200 feet, composition roof, composition and hardwood floors, safety treads, roof ventilators, iron stairs, skylights (heating, plumbing and electric reserved). Architect taking bids due June 21st.

Residence (add.), Bethayers, Pa. Architects, T. B. Lippincott and C. F. Schaef, 11 South Sixteenth street, Philadelphia. Owner, Walter MacFarland, Bethayres, Pa. Building block, stucco, 2½ stories, electric light, slate roof, pine, cement and linoleum floors, electric light, heating extension, tile and marble work, general alterations. Architects taking bids due June 12th, 11 A. M.

Office Building, Willow Grove, Pa. Architect, T. Frank Miller, 1012 Walnut street, Philadelphia. Owner, W. L. Kentner, Willow Grove, Pa. Brick, 3 stories, 47x50 feet, slag roof, pine floors, electric light. Architect taking bids due June 14th.

Grade School, Sharon Hill, Pa. Architect, Arnold Moses, Camden, N. J. Owners, School Board of Darby Township, Sharon Hill, Pa. Brick, steel, 12 stories and basement. Owners taking bids due June 10th.

Sunday School and Parsonage, Scranton, Pa. Architects, Ritcher & Eiler, Reading, Pa. Owners, St. Peter's Lutheran Church, Scranton, Pa. Stone, 2 stories, 50x32 feet, slate roof, oak and pine floors, vapor heat, electric light, metal lath, tile work, ornamental iron work waterproofing. Architects taking revised bids due June 14th.

Residence and Garage, Elkins Park, Pa. Architect, Herman Miller, Crozer Building, Philadelphia. Owner, Mrs. R. Herr, care of architect. Stone, 2½ stories, 35x50 feet, 20x24 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids.

Rhoads Hall (alts. and add.), Ashley, near Newtown, Pa. Architect, Arthur H. Brockie,

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254 South Fifteenth street, Philadelphia. Owners, Pennsylvania Hospital, Department of Mental and Nervous Diseases, Ashley, Pa. Architect taking bids due June 15th, 10 A. M.

Church and Sunday School Building, Narberth, Pa. Architect, Alexander Mackie Adams, 1012 Walnut street, Philadelphia. Owners, Narberth Methodist Episcopal Church, Narberth, Pa. Architect taking bids due June 14th.

Roberts Hall (alts.), Haverford, Pa. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owners, Haverford College, Haverford, Pa. Demolition, brick work, limestone, granite, bluestone, concrete work, structural steel, iron work, slate roof (match present), carpentry and mill work, fire doors, maple floors, hardware (heating alterations), painting, plumbing, electric work. Architects taking bids due June 11th.

Building, York, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, Manufacturers' Association of York, R. Gephart, York, Pa. Fireproof, 3 stories, 66x55 feet, tile roof, steam heat, electric light, metal lath, tile, marble and terrazzo work. Architect taking revised bids due June 12th.

Pennsylvania Contracts Awarded

Power House and Gym, Susquehanna and Huntingdon avenues, Abington, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Abington School Board, C. M. Doll, secretary, Glenside, Pa. Stone, limestone, granite, brick, steel, 57x84 feet (plumbing heating and electric and equipment reserved), slag roof, cement floors, painting and glazing, rolled steel sash, steel doors, bond, ornamental iron work, bluestone. Contract awarded Stahl & Walton, Willow Grove, Pa., $29,698.

Residence and Garage, Haverford, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owners, S. S. Thornton, care of Thornton Fuller Auto Co., Twenty-fourth and South streets. Stone, cut stone, limestone, 2½ stories and basement, 57x34 feet, garage 23x34 feet, variegated slate roof, oak, pine and cement floors, hot water heat, electric light, tile work, metal lath, bond, ornamental iron work, plumbing, painting and glazing. Contract awarded J. E. Kearney, Wynnewood, Pa.

Church, Columbia, Pa. Architect, Paul A. Monaghan, 1713 Sansom street, Philadelphia. Owners, Holy Trinity Roman Catholic Church, Rev. P. G. Brueggerman, Columbia. Stone, cut stone, limestone, steel, 1 story and basement, 195x75 feet (heating reserved), electric light, cement, tile, oak and pine floors, green slate roof, plumbing, metal lath, marble work, ornamental iron work, area gratings, bluestone cast stone, casement sash. Contract awarded Hess Brothers, York, Pa.

Community Center, Reading, Pa. Architect, G. D. Sell, 760 North Thirteenth street, Reading, Pa. Owners, St. Casimir's Society, F. Wiziewski, Reading, Pa. Contract awarded to O. J. Degler, 1041A Walnut street, Reading, Pa.

Church and Sunday School, Eenola, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Zion Lutheran Church, Rev. M. S. Sharp, Enola, Pa. Brick, stone, steel, 2 and 1 stories, 115x55 feet, 39x45 feet, slag roof. Contract awarded to J. S. Foose, Front and Emerald streets, Harrisburg, Pa.

Store, 11 and 13 North Fourth street, Harrisburg, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, Morris Schoudorf, care of architects. Brick, steel, terra cotta, 4 stories, 42x73 feet, composition roof. Contract awarded to H. A. Hipple, Harrisburg, Pa.

Roosevelt School (alts. and add.), Middletown road, Lima, Delaware County, Pa. Architect, Newton Flounders, Allison Building, Media, Pa. Owners, School Board of Middletown Township, Lima, Delaware County, Pa. Contracts awarded: Hood & Gross, 1535 Chestnut street, Philadelphia, $16,194; electric, Walter Seaves, Media, Pa., $395.50. Owners taking bids on plumbing due June 21st, 7 P. M. Bond. Certified check $100.00. Deposit, $5, refunded.

Residence, Vernon road and Clement avenue, Noble Vista, Pa. Architects, Charles W. Gilmore and Eugene V. Barthmaier, 1700 Walnut street. Owner, Mrs. C. D. Bacher, care of architect. Hollow cinder block, stucco, 2½ stories and basement, 53x26 feet, wing 31x20 feet, tile roof, pine and cement floors, safety treads, metal lath, shoring, ornamental iron work (heating, plumbing, electric light, tile work and hardwood floors reserved). Contract awarded Paul Brosz, 2511 West Huntingdon street, Philadelphia.

Residence, Jenkintown, Pa. Architect, J. Walton Heiss, Jenkintown, Pa. Owner, Howard Fleck, on premises. Stone, 2½ stories and basement, 38x28 feet, slate roof, wing 40x19 feet, oak, pine and cement floors, plumbing, hot air heat, electric light, metal lath, tile work. Contract awarded E. D. Lever, Abington, Pa.

Stores (4), Apartments, Clifton Heights, Pa., $30,000. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Michael Meisel, 5822 Baltimore avenue, Philadelphia. Brick, 2 stories, (3) 18x78 feet, (1) 21x78 feet 6 inches, slag roof, hardwood floors, hot water heat, electric light, tile work, garages in basement. Contract awarded Adolph Korn, Lansdowne, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Mercer County, R-80, A-3934, A-4001, Mercer Borough, East Lackawannock Township. One course reinforced concrete. $69,672.77. Contract awarded to Joseph McCarty Const. Co., Kaukauna, Wis.

Clarion County, R-214, Section 1, Piney and Tobey Townships. One course reinforced concrete. $105,394.15. Contract awarded to Russell Brothers, Youngstown, Ohio.

Adams-Cumberland Counties, R-41, A-3253, Huntingdon, Menallen, Tyrone, Dickinson and South Middleton Townships. One course reinforced concrete. Contract awarded to H. W. Horst Co., Rock Island, Ill. **$433,877.08.**

Allegheny County, A-3754-5, Sewickley and Franklin Townships. One course reinforced concrete. $133,762.67. Contract awarded to D. W. Challis & Sons, Inc., Sewickley, Pa.

Tioga County, R-106, A-3964, Wellsboro Borough. One course reinforced concrete. $28,-781.11. Contract awarded to D. L. Dennis & Co., Galeton, Pa.

Road Work, Pennsylvania. Owners, Penna. Dept. of Highways, Harrisburg, Pa.

Low Bidders

York Co., A-3941, Windsor Twp., Red Lion Boro., one course reinforced concrete. York Eng. & Const. Co., York, Pa., $96,858.52.

Jefferson Co., R-435-6, A-3386, Bell Twp. One course reinforced concrete. Jos. Wiesner &Son, St. Mary's, Pa., $61,849.36.

York Co., A-3827, Spring Garden Twp. One course reinforced concrete. York Eng. & Const. Co., York, Pa., $41,785.60.

Clearfield Co., R-59, Curwensville Boro. One course reinforced concrete. J. B. Trexler, Lewistown, Pa., $50,709.30.

Fayette Co., R-116, S-4, Georges Twp., 20,-890 feet. One course reinforced concrete. Elder & Merriman, Ebensburg, Pa., $185,-063.19.

Beaver Co., A-3788, New Sewickley Twp., Marion Twp. One course reinforced concrete, R. H. Cunningham & Sons, Turtle Creek, Pa., $245,148.34.

Westmoreland Co., A-4003, Hempfield Twp. One course reinforced concrete, J. H. Mickey, Latrobe, Pa., $79,479.72.

Mifflin Co., A-2764, Oliver Twp. Macadam surface course. J. H. Hutchinson, Altoona, Pa., $52,858.14.

Allegheny Co., R-7A, S-3, O'Hara Twp., Aspinwall Boro. One course reinforced concrete. R. I. Cunninghma & Sons Co., Turtle Creek, Pa., $115,172.65.

Erie Co., R-84, S-5, Waterford Boro. One course reinforced concrete. Chas. H. Fry Const. Co., Erie, Pa., $26,191.90.

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Berks Co., A-3842, S-2. Ruscomb Manor and Rockland Twp. Grading and drainage. Smith Fenstermacher, Altoona, Pa., $46,977.91.

Beaver Co., A-3783, New Sewickley Twp., 17,813 feet. One course reinforced concrete. O. B. Bracht, Titusville, Pa., $121,067.11.

Allegheny Co., R-389, A-3944, Etna Boro., Shaley Twp. One course reinforced concrete. H. O'Herron Co., Pittsburgh, Pa., $56,807.55.

New Jersey Construction News

Garage, Third and Cooper streets, Camden, N. J. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 40x120 feet, slag roof, concrete floors, steam heat, electric light. Plans in progress.

Home Building, Pacific and St. James Place, Atlantic City, N. J. Architect, Frank A. Berry, Real Estate Trust Building, Philadelphia. Owners, Knights of Columbus, Council No. 405, T. Randow, Hotel Strand, Atlantic City, N. J. Brick, steel, stone, 5 stories. Sketches being drawn.

Bank Building (remodeling), Riverside, N. J. Architect, H. O. Ziegler, Riverside, N. J., and Drexel Building, Philadelphia. Owners, First National Bank, J. J. Miller, chairman of Building Commititee, Riverside, N. J. Rebuilding and remodeling. Plans in progress.

Court House (add.), Mt. Holly, N. J. Architect, H. O. Ziegler, Riverside, N. J., and Drexel Building, Philadelphia. Owners, Board of Chosen Freeholders, Mt. Holly, N. J. General alterations and additions. Plans in progress.

Bank, Corner Woodlynne and Cooper streets, Woodlynne, N. J. Architect, not yet selected. Owners, Woodlynne National Bank, Roger B. Stone, cashier. Woodlynne, N. J. Size of lot 40x100 feet. Work contemplated.

Hotel, Brigantine Beach, Atlantic City, N. J. Architects, Zantzinger, Boric & Medary, Otis Building, Philadelphia. Owners, Atlantic City Beach Club, Atlantic City, N. J. Preliminary sketches being drawn. Work contemplated. Too early for details.

Spring Side School (add.), Burlington, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Board of Education of Burlington Township, care of architect. Brick, steel, 2 stories, 45x60 feet, slag roof, concrete floors (heating, plumbing and electric separate). Plans in progress.

Shedaker School (add.), Burlington, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton. Owners, Board of Education of Burlington Township, care of architect. Brick, 1 story, 2 rooms, shingle roof, concrete floors (heating, plumbing and electric separate). Plans in progress.

School (add.), Daretown, N. J., $30,000. Architect, Walter Custer, Bridgeton, N. J. Owners, Pittsgrove Township School Board, J. Mayhew, Daretown, N. J. Hollow tile and stucco, 1 story, 49x106 feet. Ready for bids in one week.

Grade School, Malaga, N. J., $35,000. Architect, Walter Custer, Bridgeton, N. J. Owners, Franklin Township School Board, L. Finger, Franklin, N. J. Brick, hollow tile, 2 stories, 58x94 feet, shingle roof. Ready for bids in one week.

School (alts. and add.), Brooklawn, N. J. Architects, Edwards & Green, Camden, N. J. Owners, Board of Education, Brooklawn, N. J. Brick, reinforced concrete, cut stone, steel, 2 stories and basement, 84x60 feet (pulmbing, heating, electric separate), variegated slate roof, maple and cement floors, hollow tile, metal weather strip, dampproofing, kalamein doors, bond, metal toilet partitions, demolition, cast stone, granite. Owners taking bids due June 13th.

Hospital for Insane (add.), New Lisbon, N. J. Architect, Herbert O. Ziegler, Riverside, N. J., and Drexel Building, Philadelphia. Owners, Board of Freeholders, Burlington County, N. J. Owners taking bids due June 25th.

Church (Sunday School Building), Riverton, N. J. Architect, George Savage, Witherspoon Building, Philadelphia. Owners, Calvary Presbyterian Church, Rev. C. T. Bates, Riverton, N. J. Preliminary plans in progress.

Branch Delivery Building, Pleasantville, N. J. Architect, private plans. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Brick, reinforced concrete, steel, cut stone, 2 stories, slag roof, electric light, plumbing and gas fitting, metal sash and window frames, fly screens, hardware, copper flashings. Lam Building Co., 1001 Wood street, Philadelphia, taking subbids due as soon as possible.

Building, Everett street, east of Broadway, Camden, N. J., $10,000. Architect, Clarence N. MacNeeley, 864 Maple avenue, Collingswood, N. J. Owner, Benjamin Linker, Camden, N. J. Brick and steel, 1 story, 80x210 feet, slag roof, electric light. Permit granted.

Court House, Woodbury, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Gloucester County Board of Chosen Freeholders, Gloucester, N. J. Trenton brownstone, 1 story and basement, 33x52 feet (plumbing, heating, electric separate bids), slag roof, pine and cement floors, bond, ornamental iron work. Owners taking bids due June 16th.

Engineer's Residence, Lakeland, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Board of Chosen Freeholders, Court House, Camden. Brick, stone, 2 stories, 35x20 feet, 16x18 feet, slate roof, pine floors. Low bidders: George Brandt Blackwood, N. J., $11,100; J. S. Rogers Co., Drexel Building, Philadelphia, $12,100.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Cumberland County, Route 20, Section 5, Millville to Vineland. Excavation, double line reinforced concrete, gravel shoulders. Deposit of $10.00. Certified check, 10 per cent. Owners taking bids due June 14th at 11 A. M. (Eastern Standard Time).

Residences (9), 1612-28 Pierce Ave., Camden, N. J. Architect, private plans. Owner, Daniel F. Hahn, 1106 N. 17th St., Camden, N. J. Block and stucco, 2 stories, 16x32 feet, slag roof, pine floors, hot air heat, electric light. Permit granted.

Removal of Bridge. Over Raritan River between Perth Amboy and South Amboy, Middlesex Co., N. J. Total length, 4,900 feet, steel swing span 288 feet, steel cantilever span 300 feet, fixed steel span 151 feet, remainder of timber pile trestle. Owners taking bids due June 21st at 11 A. M. (E. S. T.) Deposit $10.00. Certified check 10%. Owners, N. J. State Highway Commission.

Bridge, Camden N. J. Owners, State Highway Commission, A. Lee Grower, Sec'y, Broad St. Bank Bldgs., Trenton, N. J. Bridge across Cooper River on Camden connecting Road, South, City of Camden. Excavation, foundation excavation, concrete, reinforcing steel, structural steel. Certified check 10%. Deposit $10.00. Owners taking bids due June 21st at 11 A. M. (E. S. T.)

Hotel and Restaurant Building, Atlantic City, N. J. Architects, Geo. B. Post & Sons, 101 Park Ave., New York. Owners, Childs Company, 200 Fifth Ave., New York. Brick and limestone, 18 stories, 250x110 feet. Preliminary plans in progress. Too early for details.

Widening White Horse Pike, New Jersey. Owners, State Highway Department, A. Lee Grover, Sec'y, Broad St. Bank Bldg., Trenton, N. J. Camden Co., Route 3, Sec. 11A, widening White Horse Pike, Berlin to Hammonton, excavation, double line reinforced concrete pavement, gravel shoulders. Deposit $10.00. Certified check 10%. Owners taking bids due June 21st at 11 A. M. (S. T.)

New Jersey Contracts Awarded

Residences and Garages (2), 1522-24 Baird Ave., Camden, N. J., $10,000. Architect, private plans. Owners, Herbert V. Realty Co., Camden, N. J. Brick, 2 stories, 16x45 feet, slag roof, pine and cement floors, hot water heat, electric light. Contract awarded to Max Goldich, 227 Federal St., Camden, N. J.

Residences (2), 874-76 Beideman Avenue, Avenue, Camden, N. J., $7,000. Architect, private plans. Owner, Joseph Horneff, Beideman and Haynes Avenues, Camden, N. J. Frame, 2 stories, 14x38 feet, Carey roof, pine floors, hot air heat, electric light. Contract awarded to Wm. Townsend, 3128 River Road, Camden, N. J.

Building (Add.), 119 N. 4th St., Camden, N. J., $3,000. Architect, private plans. Owner, Oscar Patchett, 23 Broadway, Camden, N. J. Brick, 1 story additoin, 14x27 feet, slag roof. Contract awarded to Philip Huston, 722 Penn St., Camden, N. J.

Church and Sunday School, Ocean City, N. J. Architect, Charles M. McMichaels, Charlotte, N. C. Owners, First Baptist Church, Ocean City, N. J. Brick, cut stone (plumbing, heating, electric reserved), tin roof, concrete walls and tiers, inculite floors, blackboards, copper work, waterproofing, structural steel, iron work, painting and glazing. Contract awarded D. A. McClelland, Drexel Building, Philadelphia.

Residences, Morris Heights, N. J. Architects, Fowler & Michel, Fitzcharles Building, Trenton, N. J. Owner, R. E. Anderson, care of architects. Concrete block and stucco, 2½ stories, 30x50 feet, slate roof, hardwood floors, electric light, tile work. Contract awarded to Garrett Irons, White Horse, N. J.

Residence, Morris Heights, N. J. Architects, P. L. Fowler Co., Fitzcharles Building, Trenton, N. J. Owner, Lewis Briggs, Morris Heights, N. J. Hollow tile, stucco, 2½ stories, 25x30 feet, slate roof, hardwood floors, electric

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light, tile work. Contract awarded to Edward Kirby, Morris Heights, N. J.

Stores (6), Apartments (10), 1880 South Broad street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Henry Levie, on premises. Brick, steel, concrete, 2 stories, 125x85 feet, slag roof, hardwood floors, hollow tile, metal ceilings, vapor heat, electric light, metal lath, tile and marble, steel sash, copper work, plate glass. Contract awarded to William C. Ehret, Trenton Trust Building, Trenton, N. J.

High Service Station, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Trenton Water Works, A. Swan, Commissioners, City Hall, Trenton, N. J. Concrete block, structural steel, 1 story, 49x31 feet, green slate roof, concrete floors, cement stairs, bronze tablets, electric work. Contract awarded to William Hicks, 19 South Westfield avenue, Trenton.

Stores and Residences (2), 1409-11 Mt. Ephraim avenue, Camden, N. J., $8,000. Architect, private plans. Owner, Joseph Haleski, Camden, N. J. Brick, 2 stories, 15x41 feet, 15x38 feet, slag roof, hot water heat, electric light. Contract awarded to Cheslaw Bradzywski, 1204 Morton street, Camden.

Fire House, Riverside, N. J., $38,650. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Fire Company No. 1, Riverside, N. J. Brick, stone, tile, stucco, steel, 2 stories and basement 115x40 feet, built-up roof, mastic floors, safety treads, metal ceilings, bond, ornamental iron work, Duntile work, dumb waiter, hardware, painting and glazing. Contract awarded, but not signed, J. E. Kolster, Beverly, N. J.

Miscellaneous Construction News

Pan-American Building (add.), Washington, D. C. Architect, Albert R. Kelsey, Otis Building, Philadelphia. Owners, Pan-American Union, Washington, D. C. Marble, 3 stories, 2 wings, 80x40 feet each. Plans in progress.

Bank and Office Building, 9-13 North Pearl street, Albany, N. Y. Architects, Denison & Hirons, 288 Lexington avenue, New York City. Owners, Home Saving Bank, Albany, N. Y. Brick, cut stone, limestone, granite, 19 stories and basemene, 150x50 feet, steam heat, electric lgiht, metal lath, tile, marble and terrazzo work, rolled steel sash, iron stairs, ornamental iron work, Barrett specification and Johns Mansville roof, cement floors, elevators, roof ventilators, shoring, Toch Brothers' waterproofing, dampproofing, architectural terra cotta, mail chute, demolition, bluestone, spandrel waterproofing, bronze work, subway gratings (iron), plumbing, brass pipe. Architects taking bids due June 12th.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Owners taking bids due June 23rd at 2 P. M. Certified check 10%. Deposit of $2.00 Contract CN31, New Castle-Wilmington, 4.25 miles. Clearing, grubbing, excavation, borrow, roadway excavation, broken slag base course, cement, concrete pavement, longitudinal metal joint, non-metallic center line joint, Class A concrete reinforcement, corrugated metal pipe, R. C. pipe, relaid pipe 18 inche and under in diameter, Class A concrete gutter, wood shoulder curb.

Contract CK26, Magnolia-Canterbury, 5.13 miles. Excavation, borrow, broken slag base course, cement concrete pavement,(slag aggregate) longitudinal metal joint, non-metallic center line joint, Class A concrete, reinforcement, R. C. pipe, wood shoulder curb, timber piling.

Contract CS53, Bay Shore Road—Lewes, .50 miles. Excavation, borrow, cement concrete pavement (slag aggregate), corrugated metal pipe.

Miscellaneous Contracts Awarded

Church, Lima, Ohio. Architects, Charles W. Bolton & Son, Schaff Building, Philadelphia. Owners, Calvary Reformed Church, Lima, Ohio. Brick, stone, 1 story. Contract awarded Orr & Miller, Lima, Ohio.

Manufacturing Building, 41617-25 Flushing St., Borough of Queens, N. Y. Architects, The Ballinger Co., 100 E. 42nd St., New York. Owner, O'Neill Co., 25 Cliff St., New York City. Brick, steel, 2 stories, 100x400 feet (plumbing, heating, electric elevator, traveling cranes (2) reserved), steam heat, slag roof, cement and wood floors, rolled steel sash. Contract awarded Walker Kidde Co., 385 Madison Avenue, New York.

(Continued from page 356)

Technologic Paper 276, "Compressive Strength of Sand-Lime Brick Walls." The investigators found that the strength of the large specimens was from 60 to 80% of that of the small specimens or "wallettes."

LOADING ON PARTY WALL
20' SPAN BOTH SIDES

Height Stories Plus Roof	Feet	Wall Thickness Inches	Weight of Wall per Linear Foot	Live and Dead Load per Foot	Total Load per Linear Foot	Load on Lowest Mortar Bed, Lbs. per Sq. In.
1	10	8	800	4,000	4,800	50
2	20	8	1,600	6,000	7,600	80
3	30	12	2,800	8,000	10,800	75
4	40	12	4,000	10,000	14,000	97
5	50	16	5,600	12,000	17,600	92
6	60	16	7,200	14,000	21,200	110
7	70	20	9,200	16,000	25,200	105
8	80	20	11,200	18,000	29,200	122
9	90	24	13,600	20,000	33,600	117
10	100	24	16,000	22,000	38,000	132

TABLE II.
28 Days Strength of Wallettes

1:3 Mortar made from	Average* Maximum load lbs.	Average* Maximum Strens. lbs per sq. in.
Hydrate, Not aged	102,000	793
Lime putty, aged 14 days	103,250	778
Lime putty, aged 3 days	65,750	514

On this basis it will be seen that the factor of safety of masonry laid up in lime mortar is high. Under ordinary conditions the U. S. Building Code Committee in their report on Minimum Requirements for Masonry Wall Construction, permits a loading of 90 lbs. per sq. in. when 1:3 lime mortar is used. Assuming that the loading equals this figure, which actually is rarely reached, the factor of safety as calculated from the 28 day results here presented may be taken as 6 when 14 day putty or hydrate is used, or 4 when the putty has been aged only 3 days.

Not only is the factor of safety sufficient when using code limits for design, but when the actual load is computed it will usually be found far below the code limit, thus raising the factor of safety several times. For example, take an ordinary city row house with a party wall. Ordinarily the live load will be 40 lbs. per sq. ft. for floors and roof, with a dead load of 60 lbs. per sq. ft. The unsupported loaded span may be considered as being 20 ft. The brickwork

*Average based on results from 6 specimens.

ACORN
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Mosaic Ceramic and Quarry Tile Floors
Bell Phone—Laurel Springs 112 R 2

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MARBLE
MOSAIC
CERAMICS
Camden Tile Co.
1484 Bradley Avenue
CAMDEN, N. J.
BELL PHONE
CAMDEN 3827 W

may be figured as weighing 120 lbs. per cu. ft. Using these figures it will be seen that the masonry stresses in an ordinary 3 story structure are well within the limit of 90 lbs. per sq. in. When stresses are computed, however, the U. S. Code Committee permits an increase of 50%, raising the load on lime mortar to 135 lbs. per sq. in. Under that limit, structures of the type just referred to could be carried up to 10 stories before the limit is reached. However, the wall space required would govern before the load limit was reached and steel or concrete frame construction would be used.

Lime mortar has been used for centuries in all types of masonry work and its durability has been established by the test of time. Its fire resistance has been tested and found satisfactory, its strength is more than sufficient for all ordinary wall loads, and its economy is apparent.

Where high and concentrated loads are encountered cement may be added to lime mortar. Such a practice will increase the strength of the mortar, although it also increases both the labor and material costs. These factors should all be taken into consideration when specifying types of mortar.

A series of tests to determine the effect of low temperatures on various types of mortars was recently reported by the University of Wisconsin. They found that a mix composed of 1 part cement, 2 parts lime and 9 parts sand by volume combined the three desirable functions of ample strength, resistance to damage by low temperatures, and economy. This mortar is easy working and easy to proportion, both of which are important on the job.

Mortar should be used just as steel, concrete, wood, or other structural materials are used. In other words, it should be specified with due regard to the load which it must carry. There is no more reason to require a built up steel girder as a door lintel in a bungalow than there is to specify a rich cement mortar in one story building or in a curtain wall, for in both cases strength would be wasted and economy sacrificed.

The National Lime Association is constantly studying construction problems in the field and in the laboratory and is willing at all times to co-operate with building officials and code committees as well as engineers, architects, and contractors, toward the end of making possible efficient, economical and safe construction.

MORE THAN HALF THE URBAN POPULATION OF THE UNITED STATES LIVE IN ZONED CITIES AND TOWNS

More than half the urban population of the United States live in zoned cities and towns at present against about one-tenth in 1916, according to information obtained by the Division of Building and Housing of the Department of Commerce. There are now 436 muncipalities with a population exceeding 27,500,000 inhabitants that have zoning ordinances in effect, as against six cities with less than six millions in 1916.

The greatest development of zoning has taken place practically within the last ten years. The number of zoned cities increased from six at the end of 1916 to 73 by the end of 1921; to 265 by the end of 1923; to 425 by the end of 1925; and 11 additional places have reported zoning ordinances adopted since the first of the year.

Grouped according to population, 47 of the 68 largest cities having over 100,000 population, and 150 of the 287 cities and towns having over 25,000 population have zoning ordinances in effect.

In an effort to protect home owners, and other land owners, in the reasonable use of their property, these cities, towns and villages adopted zoning ordinances, according to Dr. John M. Gries, Chief of the Division of Building and Housing. He said that "zoning seeks so to regulate the use to which buildings may be put, the area of the lot that may be covered and the height of buildings in different sections of the city, so that the land in each district may be used for the purposes it is best suited." Provision is made, consequently, in properly drawn ordinances, to secure a neighborhood of small houses, for example, against having a noisy factory site in its midst, with resulting losses not only in property values but also in peace and quiet. The factory owner, likewise, is apt to have the better choice of desirable level plant sites with good transportation facilities.

The number of zoned municipalities in the leading states follow:

New Jersey	73
New York	72
California	47
Massachusetts	41
Illinois	38
Ohio	24
Pennsylvania	24
Wisconsin	18
Michigan	16
Indiana	13
Connecticut	7
Iowa	7
Kansas	6
Rhode Island	5
OTHER STATES	45

REAFFIRM SIMPLIFIED SIZES FOR PAVING BRICKS

The permanent standing committee representing paving brick manufacturers, state highway officials, municipal authorities, federal public roads authorities and others, in its fifth revision conference held in the Department of Commerce recently, reaffirmed its action of a year ago, and the four "recognized sizes" as listed in Simplified Practice Recommendation for that industry remain unchanged.

This decision was taken after the National Paving Brick Manufacturers Association, through its secretary, Edward E. Duff, Jr., had reported that 74.2 per cent of the entire production of the country in paving brick during 1925 was in these four sizes. The figures presented represented total shipments of 353,588,777 bricks and that this covered all but 4 per cent of the total tonnage of the companies.

A decline of some 45,000,000 in shipments during 1925 over 1924 was accounted for in the report by freight charges which preclude long haul shipments to communities which formerly used vitrified paving brick extensively, and to the fact that many communities are catching up with paving requirements which arose during the World War. It was also shown that the merger of five companies had reduced the number of plants reporting. Fourteen states were represented in the survey.

Reports were received from the Bureau of Public Roads of tests of different sizes of paving brick which have been under way for some months at an experimental track at Arlington. These showed some 40,000 trips made over 10 sections paved with brick of varying thicknesses, the tests involving the use of 3-ton, 5-ton and 7½-ton trucks, fully loaded. The figures presented were received with keen interest by the committee, which later visited the test roadway at Arlington.

Discussion of whether the committee should reinstate a size previously eliminated and which had shown a marked increase in demand during the last year, led to a decision not to take this action now. The Committee was guided by a rule which was adopted three years ago and which provided that unless one of the non-recognized sizes showed a demand of 5 per cent or more for three years in succession, the reinstatement should not take place.

The personnel of the committee includes the following:

E. J. Mehren, Chairman of the McGraw Hill Co., New York City; P. St. J. Wilson, Bureau of Public Roads, Department of Agriculture; Col. R. Keith Compton, American Society of Civil Engineers, Richmond, Va.; Geo. F. Fisk, American Society for Municipal Improvements, Buffalo, N. Y.; O. W. Renkert, American Ceramic Society, Columbus, Ohio; Edward E. Duff, Jr., Secretary, National Paving Brick Manufacturers Assn., Cleveland, Ohio; Prof. T. R. Lawson, American Society for Testing Materials, Philadelphia, Pa.; Paul E. Holden, Chamber of Commerce of the United States; P. H. Bates, U. S. Bureau of Standards; G. F. Schlesinger, American Association of State Highway Officials, Columbus, Ohio; and R. M. Hudson, Division of Simplified Practice, Department of Commerce.

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
chitectural Cast Cut Stone Co.....Westmont, N. J.

ARCHITECTURAL IRON WORK
aker City Art Metal Works,
2445 N. Second St., Phila.

ARTESIAN WELLS.
dpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

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ber, F., Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
ue Print Shop.....1520 Sansom St., Phila.
bbins, Chas. H., Co.....1729 Sansom St., Phila.
ber, F., Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

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ue Print Shop.....1520 Sansom St., Phila.
bbins, Chas. H., Co. .....1729 Sansom St., Phila.
ber, F., Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS.
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BRICK.
x, Janeway, & Co..Real Estate Trust Bldg., Phila.
M. & C. M. Siner..Church and Tacony Sts., Phila.
celsior Brick & Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving).
tcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
tchell Bros. .....2125 Race St., Phila.
iser, M. J. .....4238 Old York Road, Phila.
seph Rotornado.....4740 Milnor St., Phila.

BUILDERS' SUPPLIES.
rvice Supply Corporation,
20th and Venango Sts., Phila.
e Van Sciver Corporation,
The Parkway at 24th St., Phila.
st Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
skey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
chitectural Cast Cut Stone Co. ...Westmont, N. J.
neland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
e Van Sciver Corporation.
The Parkway at 24th St., Phila.
st Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
Lauro, John.....7732 Ardleigh St., Phila.
rsch, Wm. F. .....Narberth, Pa.
ssiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.

COLUMNS (Metal).
arce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE SEWER PIPE.
oudsburg Septic Tank Co..328 Chestnut St., Phila

CONCRETE WORK.
rsch, Wm. F. .....Narberth, Pa.
ssiah, Frederick.. Juniper and Cypress Sts., Phila.

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vitt, Paul J. .....1101 S. 2nd St., Phila.
e T. Ward Co. .....617 Filbert St., Phila.
rvice Supply Corporation, 20th and Venango Sts.

CORK FLOORING
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.

CURTIS WOODWORK.
llingham Co ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
ilding News Pub. Co. ...1530 Chestnut St., Phila.

DAMPPROOFING.
ti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
rnett Bingswanger.....829 N. 3rd St., Phila.
ncrete Waterproof Paint Co..829 N. 3rd St., Phila.
ster Builders Co., ...Otis Bldg., Phila.
uscon Laboratories.....1505 Race St., Phila.

DOOR BEDS
rphy Door Bed Co.....512 Bulletin Bldg., Phila.

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bbins, Chas. H., Co. .....1729 Sansom St., Phila.
ber, F. Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

EXCAVATING.
rsch, Wm. F. .....Narberth, Pa.
nitary Sewage Disposal Corp..40 S. 52nd St., Phila.

FENCES.
ttit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
tts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
lsbord, Wolf .....4437-43 Ludlow St,. Phila.

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mmercial Advance Corp., 1011 Chestnut St., Phila.
rtgage Extension Corp.,.1011 Chestnut St., Phila.

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arce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES.
E. Lingo & Son .....Camden, N. J.

FLOOR HARDENER.
ti-Hydro Waterproofing Co., 24th and Parkway.
ncrete Waterproof Paint Co...829 N. 3rd St., Phila.
ster Builders Co., ...Otis Bldg., Phila.
uscon Laboratories.....1505 Race St., Phila.

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ood, Alan, Iron & Steel Co..Widener Bldg., Phila.

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Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.

GAS RANGES.
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
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Vineland, N. J.

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HEATING BOILERS.
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Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

HOT WATER GENERATORS.
Edwin Elliot Co. .....560 N. 16th St., Phila.

INSURANCE.
Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
1711 Chestnut St., Phila.

Smith-Austermuhl Co. .....Camden, N. J.

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Nicetown Plate Washer Co.1844 W. Juniata St., Phila.
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Wood, Alan, Iron & Steel Co...Widener Bldg., Phila.

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DeCou, Richard Co. .....11th and Noble Sts., Phila.
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Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
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Radiator Cabinet Co. .....Drexel Bldg., Phila.

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Abram Cox Co....American and Dauphin Sts., Phila.
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Harsch, Wm. F.....Narberth, Pa.

ROAD MACHINERY.
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Service Supply Corporation, 20th and Venango Sts.

ROOFING.
Benjamin Foster Company,
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Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.

ROOFING MATERIALS.
Service Supply Corporation,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.

ROOFING SLATE.
Chapman Slate Co .....Bethlehem, Pa.

ROOFING TILE.
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Hamilton Rubber Mfg. Co. ..2317 Walnut St., Phila.

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Malia, Thomas.....226 W. Mentor St., Phila.

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SEWAGE EJECTORS.
Sanitary Sewage Disposal Corp..40 S. 52nd St., Phila.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

SEWERAGE WORK.
Harsch, Wm. F. .....Narberth, Pa.
Sanitary Sewage Disposal Corp..40 S. 52nd St., Phila.

SEWER PIPE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.

SHEETROCK (Wall Board).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
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52nd and Woodland Ave., Phila.

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S. W. Cor. 22nd and Cambria Sts., Phila.

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St. Martin's Building Stone,
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"SURETY BONDS"
Smith-Austermuhl Co. .....Camden, N. J.

TERRA COTTA (Architectural).
Conkling-Armstrong Terra Cotta Co.
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Ketcham, O. W. .....121 N. 18th St., Phila.

TERRA COTTA SEWER PIPE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.

TILE AND TERRAZZO WORK.
Acorn Tile Co.....Clementon, N. J.
Belfi Bros. Co. .....1923 Market St., Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. ....433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.
Wm. G. Wilson.....2313 Walnut St., Phila.

TRANSITS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

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Ketcham, Howard .....3rd and Girard Ave., Phila.

WALL BOARD (Sheetrock).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
Shaw, James, & Son Co., 52nd and Woodland Ave.

WALL COPING.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.

WATER HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Philadelphia Gas Range Co. ....1026 Arch St., Phila.

WATERPROOFING.
Anti-Hydro Waterproofing Co....24th and Parkway.
Concrete Waterproof Paint Co. 829 N. 3rd St., Phila.
Benjamin Foster Company, 20th and Venango Sts.
Master Builders Co., ...Otis Bldg., Phila.
Truscon Laboratories.....1505 Race St., Phila.

WEATHERSTRIPPING (Metal)
Malia, Thomas.....226 W. Mentor St., Phila.

WINDOW GUARDS AND WIRE PARTITIONS
Potts, Horace T., & Co...Erie Ave. and D St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.

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The Austin Company, Builders

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 24
June 16, 1926

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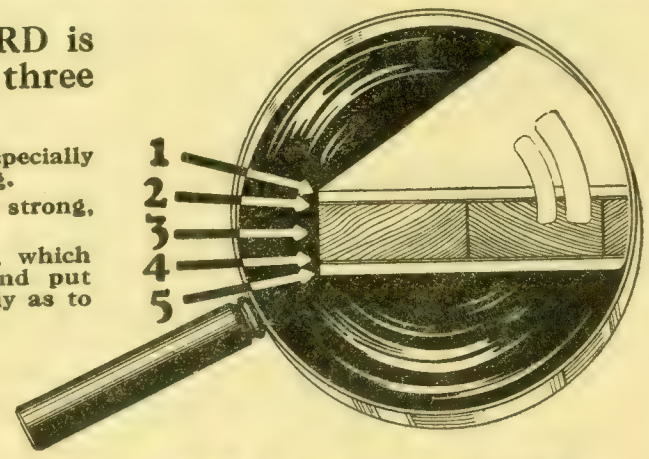
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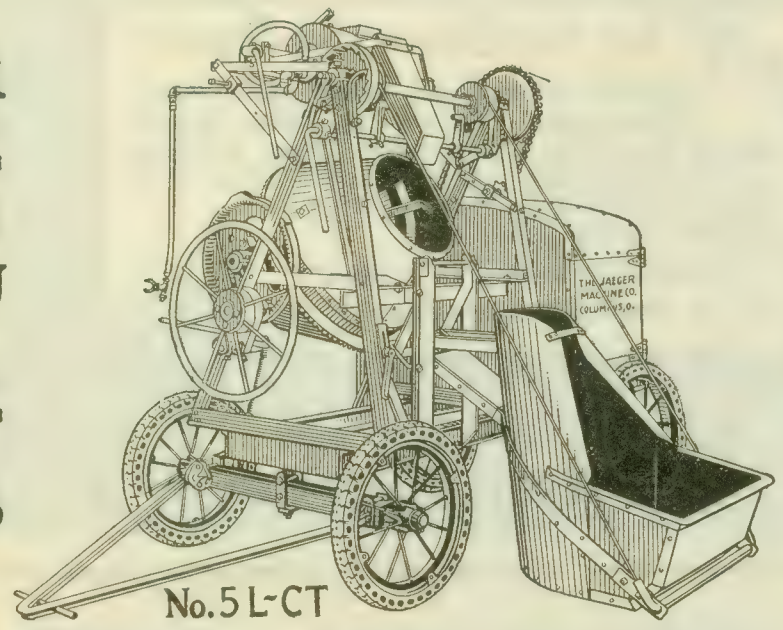
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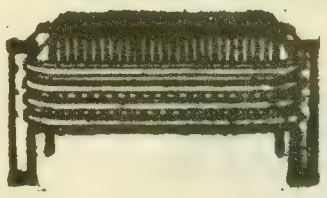
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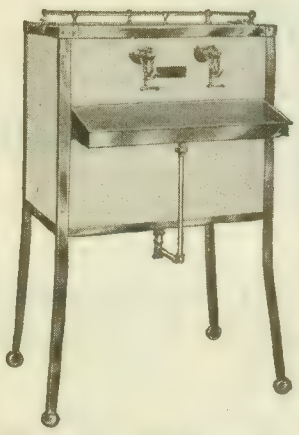


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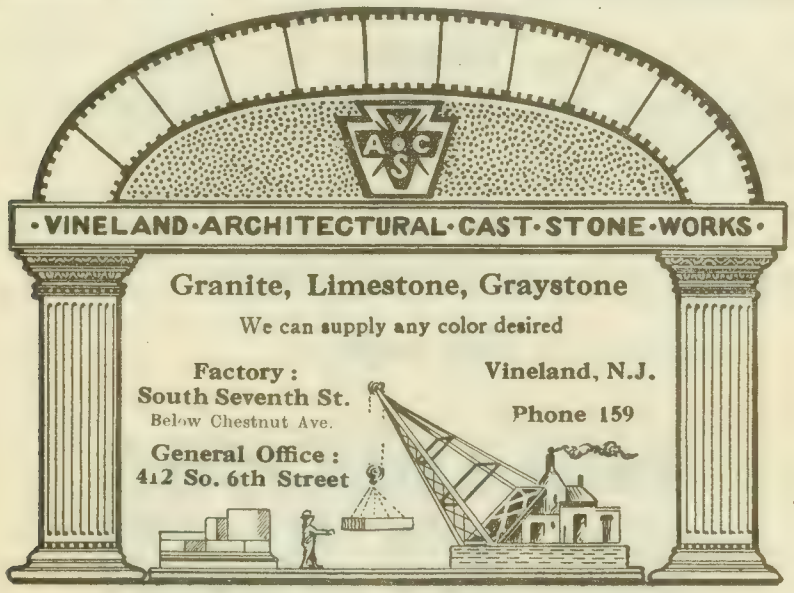
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 24

PHILADELPHIA
June 16, 1926

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As The Editor Sees It

SEMI-ANNUAL STATEMENT BY AMERICAN CONSTRUCTION COUNCIL

In its national survey of construction conditions just made the American Construction Council notes the following findings:

Although the first four months of 1926 showed the greatest volume of building construction yet seen for the same period of any year and exceeds by 20 per cent the similar period for 1925, which itself was a record breaking building year, this condition is not uniform as some localities show a recession, and there are some indications toward greater moderation. The last part of April showed a slight seasonal decrease from the rate of the preceding months, which, however, is partially due to the fact that spring work has come into the market earlier than usual this year as a result of the continuous campaign for all year round work carried on by the Council and its affiliated branches of the industry as well as by the government.

It is difficult to tell whether the growth of new industrial and commercial buildings will continue to go down on the books the next six months as fast as it has during the past year. A distinct note of caution has been sounded by many individuals and many groups. In the matter of high-priced apartments and hotels a similar note of caution has been sounded. It is only in the group of medium priced well-built private dwellings that the demand seems to warrant real optimism. This demand for homes must not be confused with artificial real estate booms.

What is needed as to volume of construction is of course steady all-year-round and year-in-and-year-out out work on a sound level, and whatever can be done to maintain this is much more important than mere peak production. In addition to what is being done by the industry itself, the efforts of the Federal Government as well as of various states toward this end in the scheduling of public building programs is highly commendable.

The outstanding need still remains that of suitable housing for persons of average means at a fair price. What the Council pointed out last Fall still holds true—that the large volume of building construction has not yet met the country's real housing need! City residential construction continues in the main to be of the larger and higher priced apartments and hotels, and the more active suburban home developments are still too frequently high in price or inferior in quality.

The construction of large buildings is reflecting more and more, however, the increased demand of the public for better built buildings as urged by the Council for the past several years, and a similar demand is beginning to show itself on the part of the prospective home owner of moderate means as evidenced by the nation-wide demand for the Council's recent pamphlet, "Six Steps in Building or Buying a Home," which has received the hearty approval of the responsible elements of the various branches of the construction industry as well as of the public. But further awakening of the public consciousness to the value of better building and an ever present insistence on the part of the home buyer that he get real value for his money are still needed.

The Council urges the prospective home owner to deal only with reliable persons in all the states of buying or building a home—location, financing, design and building. He should also insist upon first-class materials and first-class workman-

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ship both in the structure proper and in its equipment.

Likewise, the investing public whose money goes into mortgage bonds and other present day forms of financing large building construction should insist upon first-class construction in both materials and workmanship on all buildings into which it puts its money and deal only with reliable loaning institutions from whom it can obtain full facts as to not only the nature of the security, but the character of the building and supervision of the structure itself. In doing this the public must consider every building as a separate and distinct problem, for the safety of building loans cannot be characterized as a whole either safe or unsafe.

As the Council noted in its statement last Fall, the passing of the acute building shortage and temporary building booms in some localities with the consequent return to normal consideration of building values will make structures of inferior quality an increasingly heavy liability.

It is such insistence on the part of the public that the essentials of right construction be put into actual practice—from financing of the project and the design and erection of the building to the supervision of the finished structure—that will maintain the building industry on a healthy basis. To make this insistence effective the public must co-operate with persons of skill, vision and responsibility in all branches of the industry.

Regional planning of large and small cities as to both beauty and ultility as well as the proper development of smaller centers and suburban districts should have the hearty support of the public. Even the smaller towns and villages which anticipate future growth should conduct intelligent town planning. The flow of traffic to and from the large centers and its relation to building development is also becoming an increasingly serious problem and should receive careful consideration in this connection.

The market for building materials continues in general to be satisfactory, although in some branches of the industry a disposition to buy only for immediate requirement is seen.

Labor productivity continues to be relatively favorable which helps to reduce actual costs, although wages have advanced in some instances. Any increases in wages will, it is hoped, carry a corresponding increase in skill and proper productivity.

Money for building purposes continues to be readily available in most locations, but the element of caution is playing a greater and greater part in regard to speculative building operations.

The outlook for highway construction indicates the largest yearly volume in that branch of the industry yet seen. The Council therefore urges the public to insist that its representatives who have charge of such construction be instructed and given the necessary authority to conduct their program so as to make for more and better highways of first-class construction. Otherwise the utility of the highways will soon decline and the taxpayers of the country will in a few years be called upon to duplicate this large expenditure of public money which if wisely spent is a great national asset, but if poorly spent becomes only an increasing economic burden.

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At a meeting held recently at the Manufacturers' Club, the principal face brick dealers and manufacturers of Philadelphia met for the purpose of forming an organization, the objects of which will be to promote fellowship and good-will among its members, advance the status of the industry, promoting use of brick as a building unit and obtain and tabulate information relative to the industry in Philadelphia, particularly as applies to face brick.

(Continued on page 383)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Office and Loft Building, Thirteenth and Wood and Carlton streets, Philadelphia. Architects, The Stuckert Co., Crozer Building, Philadelphia. Owners, care of Barber, Hartman Co., Commonwealth Building, Philadelphia. Reinforced concrete, brick, steel, 8 stories and basement, 71x143 feet, composition roof, cement floors, 2 elevators, plumbing, steam heat, electric light, rolled steel sash. Plans in progress.

School Building and Principal's Residence, Knight road and Andalusia Turnpike, Byberry, Pa., $125,000. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut sereet, Philadelphia. Work contemplated.

Retaining Wall and Garage, 301 Gowan avenue, Philadelphia. Architece, George S. Idell, 1510 Chestnut street, Philadelphia. Owner, Frank P. Brooks, on premises. Stone. Plans in progress.

Auto Show Room, 4131 Frankford avenue, Philadelphia. Architect, Edwin Schoeppe, 1437 Spruce street, Philadelphia. Owners, Williard-Chevrolet Co., on premises. Limestone front, brick, steel, 1 story, 60x60 feet, slag roof, tile floors, heating and lighting extension, copper bulks. Plans in progress.

Elementary and Kinderkarten, Sixty-eighth and City Line, Overbrook, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Friends' Central School, Barclay Jones, Overbrook, Pa. Stone, 1 story. Plans in progress.

Country Club, Torresdale, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Torresdale Frankford Cricket Club, care of C. Evans, Torresdale avenue, Tacony. Sketches submitted. Work contemplated.

Church, Northeast Corner Fifty-eighth and Springfield streets, Philadelphia, $75,000. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Berry Methodist Episcopal Church, on premises. Preliminary sketches drawn. Work contemplated.

Church and Sunday School, Northeast Corner Broad and Grange avenue, Philadelphia. Architects, The Stuckert Co., 1420 Chestnut street, Philadelphia. Owenrs, Heidelberg Reformed Church, on premises. Stone. Ready for bids in one week.

Elementary School, Ogontz avenue and Nedro avenue. **Special School,** Hancock and Wildey streets. **Olney School Annex,** Tabor road and Water street, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Plans about completed. Owners will be ready for bids in two weeks. Bids due July 13th.

Club House, Coulter street and Germantown avenue, Philadelphia. Architect, E. A. Wightman, Bankers' Trust Building, Philadelphia. Owners, Germantown Square Club, care of architects. Sketches drawn. Work contemplated.

Residence (alts.) to Warehouse, 1238-46 Belmont avenue, Philadelphia. Architect, private plans. Owners, Central Const. & Supply Co., Mr. J. Wildrick, secretary, 2222 Arch street. General interior alterations. Plans in progress.

Store and Apartment (12), 2024 Brown street, Philadelphia. Architect, I. Demchick, 1701 Chestnut street, Philadelphia. Owners, Soiffer Brothers & Cutler, 1304 Arch street, Philadelphia. Brick, 3 stories, 21x37 feet, slag roof, hardwood floors, electric light, tile work, galvanized sheet metal work, plate glass, copper mouldings, painting and glazing. Architect will be ready for bids in one week.

Bank Building, Northeast Corner Front and Allegheny avenue, Philadelphia. Architects, Watts & Coscia, 1504 Locust street, Philadelphia. Owners, Allegheny Title & Trust Co., F. T. Neill, president, 300 Walnut street. Limestone, brick, reinforced concrete, cut stone, 2 stories and basement, 38x59 feet (heating, oil burner, plumbing, electric, marble, lockers, elevators reserved), Barrett specification roof, cement and composition floors, hollow tile, shoring, dampproofing, metal lath, tile work, hollow metal sash, rolled steel skylights, hollow metal doors, bond, iron stairs, ornamental iron work, demolition, area gratings, metal toilet partitions, bronze work, granite, cast stone. Architects taking bids due June 21st, 10 A. M.

Building (alts. and add.), 3313 North Broad street, Philadelphia. Architects, Thalheimer & Weiss, 10 South Eighteenth street, Philadelphia. Owners, North Philadelphia Realty Board, Mr. Thomas, on premises. Brick, limestone, concrete, steel, 2 stories and basement, 32x28 feet, slag roof, treadlite and cement floors, plumbing, granite, steam heat, electric light, marble work, casement sash. Architects taking bids due June 17th.

Store Building, Fifth and Olney avenue, Philadelphia. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owners, Mastbaum Brothers & Fleisher, 1432 South Penn Square, Philadelphia. Concrete, artificial stone, brick, steel, 2 stories and basement, 51x100 feet, slag roof, cement, oak and pine floors, plumbing, steam heat, electric light, metal lath, tile and marble work, metal bulks, ornamental iron work, sprinkler system, painting and glazing. Architects taking bids due June 17th at noon.

Light Manufacturing Building, 310-12 South Fourth street, Philadelphia. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owners, I. Fischman & Son, 312 South Fourth street, Philadelphia. Brick, 3 stories and basement, 22x100 feet, wing 24x20 feet, steam heat, electric light, skylights, slag roof, maple floors, dumb waiters, sprinkler system, plumbing, general alterations to 312 South Fourth street. Owners taking bids.

Store Building (alts. and add.), Northwest Corner Forty-seventh and Baltimore avenue, Philadelphia. Architect, private plans. Owner, James N. Beers, on premises. Iron area grating, carpentry and mill work, plastering, iron doors, brick work, painting and glazing, cement work, plate glass, limestone, stone work, metal ceilings. Owner taking bids due as soon as possible.

Nurses' Home (add.), Cypress street, between Sansom and Walnut streets, Philadelphia. Architects, Stone & Webster, Real Estate Trust Building, Philadelphia. Owners, Jefferson Hospital, Tenth and Sansom streets, Philadelphia. Reinforced concrete, brick, 2 story add., 99x32 feet, slag roof, maple and cement floors, painting and glazing, metal lath, tile, marble and terrazzo work, hollow metal sash and doors, shoring, bond, ornamental iron work, demolition. Architects taking bids due as soon as possible.

Bank Building, Southwest Corner Broad and Nedro avenue, Philadelphia. Architects, Simon, Brittain & English, Inc., 929 Chestnut street, Philadelphia. Owners, Fern Rock Trust Co., S. B. Davis, Southeast Corner Broad and Nedro streets. Brick, stone, 2 stories, 28x48 feet. Architects taking bids due June 25th, 2 P. M.

Service Supply Station, Forty-eighth and Girard avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Pep Auto Supply Co., Broad and Vine streets, Philadelphia. Brick, 1 story, 50x75 feet, slag roof, wood and composition floors, plumbing, sprinkler system, heating, electric light. Architects taking bids due June 22nd, 11 A. M.

Miscellaneous Equipment, Philadelphia. Owners, Pennsylvania Railroad, Montgomery Smith, purchasing agent, Seventeenth and Filbert streets, Philadelphia. Contract No. 7-1926, bids due June 25th before noon. Contract 7-1926, bids due June 28th before noon. Contract No. 8-1926, bids due June 25th befor noon. Contract No. 4-1926, bids due June 15th before noon.

Hotel, 1409-11 Lombard street, Philadelphia, $35,000. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Benjamin Hol-

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lander, 406 South Ninth street, Philadelphia. Brick, 4 stories, 35x28 feet, 32x41 feet, slag roof, steam heat, electric light, hardwood and pine floors. Permit granted.

Residences (2), North side Rhawn street, East of Loretta, $5,500 each. Architect, private plans. Owner, A. J. Cassidy, 1534 Overington street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, 1545 Kinsdale street, Philadelphia, $6,000. Architect, private plans. Owner, Harold P. Mueller, 204 Oak Lane Trust Building, Philadelphia. Brick, 3 stories, 19x31 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence (add.), 6001 Kingsessing avenue, Philadelphia, $2,300. Architect, private plans. Owner, Peter J. Maloy, on premises. Brick, 1 story, 30x30 feet, slag roof, pine floors, electric light. Permit granted.

Residences (65), Rorer and Rockland streets, Philadelphia, $219,600. Architect, private plans. Owners, John V. Bateman & Sons, 5600 Germantown avenue, Philadelphia. Brick, 2 stories, (4) 15x38 feet, (61) 15x28 feet, 12x10 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (19), F, Jerico and Herkness streets, Philadelphia, $88,500. Architect, private plans. Owner, Harry Sobel, 7048 North Broad street, Philadelphia. Brick, 2 stories, (2) 17x39 feet, (17) 16x28 feet, 13x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (20), Sanger street and Rising Sun avenue, Philadelphia, $111,000. Architect, private plans. Owner, R. Wallace Troenmer, 561 West Roosevelt Boulevard, Philadelphia. Brick, 2 stories, (2) 16x38 feet, (18) 16x29 feet, 12x8 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (4), West side Richmond street, North of Arch street, $12,000. Architect, private plans. Owner, Stanley Bicalas, 4353 Belgrave street, Philadelphia. Brick, 2 stories, 15x50 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (2), 4624-26 East Wyoming avenue, Philadelphia, $5,600 each. Architect, private plans. Owner, Joseph B. Brady, Jr., 4620 Wyoming avenue, Philadelphia. Brick, 2 stories, 16x51 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Garage (add.), 6333 Cherokee street (rear), Philadelphia, $3,500. Architect, private plans. Owner, Victor A. Levand, 6330 Cherokee street, Philadelphia. Brick, 1 story add., 17x216 feet, slag roof, cement floors, steam heat, electric light. Permit granted.

Store and Residence (alts.), 539 North Thirty-sixth street, Philadelphia, $2,000. Architect, private plans. Owner, Anthony Gallagher, Southwest Corner Thirty-seventh and Haverford, Philadelphia. General alterations. Permit granted.

Miscellaneous Sewer Work. Low bidders. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Germantown avenue, Cresheim Creek to Allen's lane, W. H. Yetman, Lincoln Building, Philadelphia, $48,-431.90. Godfrey avenue, Bingham street, Tabor avenue, etc., P. & A. J. Ellis, Fourth and Wyoming avenue, Philadelphia, $21,532. Mifflin street, Thirty-second street and Twenty-ninth street, E. & C. Perna Co., 752 South Tenth street, Philadelphia, $44,171.38. Old ewer work and new work, Eleventh and Girard avenue, Mazolla & Marano, 739 South Seventh street, Philadelphia, $120,940. Test borings for bridges, John E. Robinson, care of owner, $4,200.

Alterations and Additions to Residence and Garage, 301 Gowan Avenue, Philadelphia. Architect, Geo. S. Idell, 1310 Chestnut St., Philadelphia. Owner, Frank K. Brooks, on premises. Stone, 1 story and basement, 37x20 feet, slag roof, cement and pine floors, plumbing, millwork, heating ext. electric light. Architect taking bids due June 18th.

Factory (add.), Fifth and Hamilton Sts., Philadelphia. Architect, P. S. Tyre, 114 S. 15th St., Philadelphia. Owner, Crescent Ink and Color Company of Pennsylvania, 460 N. Fifth Street, Philadelphia. Brick. Architect taking bids due June 21st 4 P. M.

Residences (72), 57th to 59th, Oxford and Nassau Sts., $362,000. Owner, Joseph P. Collins, 216 Ledger Building, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, electric light. Permit granted.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store and Apartment (alts.), Workshop (add.), Oxford pike and Rhawn street, Fox Chase. Architect, C. H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, Arthur B. Crossan, on premises. Mill work, wood bulks, hot water heat, composition and cement floors, plumbing, general interior alterations, rolled steel sash, galvanized iron shop, 30x40 feet. Contract awarded William F. Lotz, Frankford and Oakford street, Philadelphia.

Store and Residence (alts.), Cumberland and Sepviva streets, $15,000. Architect, C. H. Fries, Frankford and Oxford avenues, Philadelphia. Owner, William M. Armstrong, on premises. Brick, limestone, hot water heat, electric light, tile work, tin roof, rubber tile floors, cement work, tile work, carpentry and mill work, copper bulks, plate and leaded glass. Contract awarded William F. Lotz, Frankford and Oakford street, Philadelphia.

Mausoleum (add.), Baltimore pike, Philadelphia. Architect, private plans. Owners, Fernwood Cemetery, on premises. Reinforced concrete, steel, 1 story, 32x57 feet, slag roof, cement floors, marble work, grading, leaded glass, bronze windows. Contract awarded F. K. Worley Const. Co., Wesley Building, Philadelphia.

Synagogue (alts. and add.), Southwest Corner Larchwood and Salford streets, Philadelphia. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Cong. Sinath Hazedek, care of Morris Coopersmith, 5930 Larchwood avenue. Brick work, slag roof, carpentry and mill work, painting and glazing, plastering, steam heat, electric light, metal lath, tile work, marble work, iron work. Contract awarded Krowitz & Goodman, care of owner.

Garage (add.), 5809-11 Torresdale avenue, Philadelphia. Architect, Edward Schoeppe, 1437 Spruce street, Philadelphia. Owners, Andy Newton, Inc., on premises. Brick, 1 story, steel, 79x28 feet, slag roof, cement floors, plumbing, painting and glazing, fire doors, rolled steel sash. Contract awarded Wintz Bros., 1618 Sellers street, Philadelphia.

Garage, Northeast Corner Howard and Cumberland streets, Philadelphia. Architects, Watt & Coscia, 1504 Locust street, Philadelphia. Owner, name withheld. Brick walls, new bulks, lighting, painting, general alterations. Contract awarded Clayton & Davison, 217 West Lippincott street, Philadelphia.

Cafe (rear add.), 412 Allegheny avenue, Philadelphia. Architects, Watt & Coscia, 1504 Locust street, Philadelphia. Owners, Primrose Cafe, on premises. Brick, 1 story, 16x18 feet, slag roof, general alterations. Contract awarded Hopple & Miller, Heed Building, Philadelphia.

Residence (alts.), 5133 Chestnut street, Philadelphia. Architect, private plans. Owner, Dr. Thomas Wolden Phillips, on premises. Slag roof, carpentry and mill work, brick work, painting and glazing, ak floors, plumbing, electric work, plastering. Contract awarded Alfred V. Gilchrist, Drexel Building, Philadelphia.

Apartment House, Greene, Hortter and Upsal streets, Philadelphia, $750,000. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owners, Crestshire Apartments, care of architect. Brick, steel, limestone, concrete, 8 stories, irregular in size, 39 apartments, vapor heat, electric light, tile and marble work, elevators, slag roof, hardwood floors, kitchen equipment, laundry equipment. Contract awarded R. P. Whitty Co., Washington, D. C.

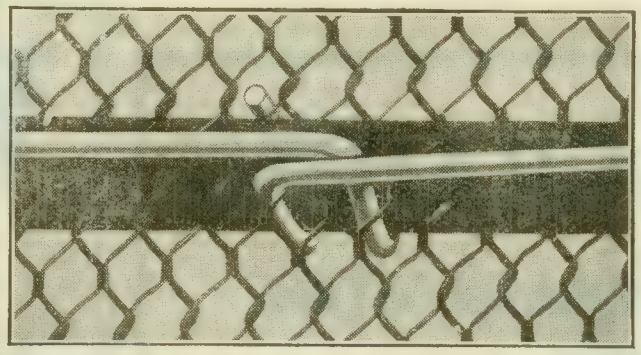
Miscellaneous School Work. Contracts awarded. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Newton School, I. Demarest, 10 South Eighteenth street, Philadelphia, $7,694; plumbing, S. Faith & Son, 2427 Pennsylvania avenue, Philadelphia, $5,072; heating, A. McClintock & Son, 1937 Ridge avenue, $233. No. 112, William Langhorne, 10 South Eighteenth street, Philadelphia, $1,250. No. 121, heating, Philadelphia Pipe & Piping Co., 1605 Rockland, $1,030. No. 122, heating, McClintock & Son, 1937 Ridge avenue, $551. No. 123, heating, Philadelphia Pipe & Piping Co., 1605 Rockland, $560. No. 124, McClintock & Son, 1937 Ridge avenue, $1,130. No. 125, heating, McClintock & Son, 1937 Ridge avenue, $1,167.80. No. 126, heating, Philadelphia Pipe & Piping Co., 1605 Rockland street, $453. No. 127, heating, Thompson Brothers, 512 Buttonwood street, $879. No. 128, heating, McClintock & Son, 1927 Ridge avenue, $1,573. No. 129, heating, McClintock & Co., 3605 Race street, $944. No. 130, heating, McClintock & Co., 5608 Race street, $3,412. No. 131, Haverstick & Borthwick, Schaff Building, $3,950. No. 132, plumbing, D. J. Keating, 2042 Rittenhouse street, $800. No. 142, E. C. Durrell, 1717 North Twenty-fourth street, $2,107. No. 146, new boilers, Conneru Co., Second and Luzerne streets, $22,619. No. 147, McClintock & Co., 5608 Race street, Philadelphia, $7,965.56. No.

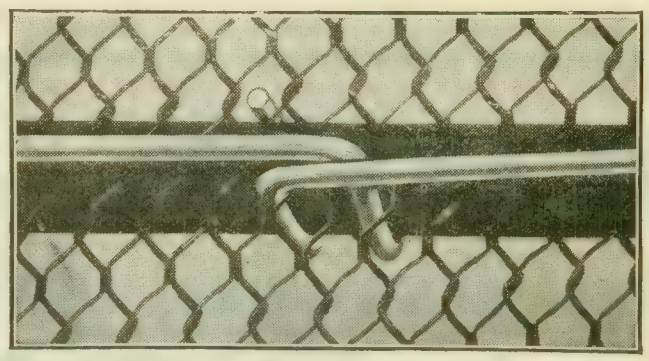
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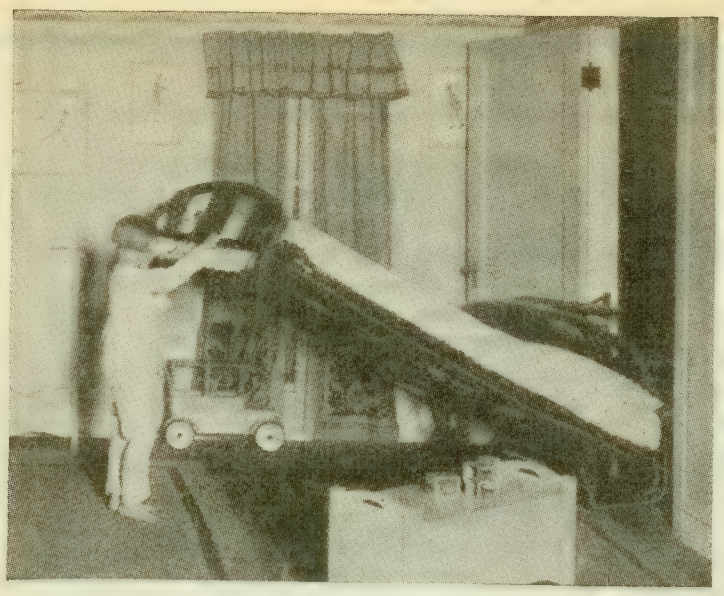
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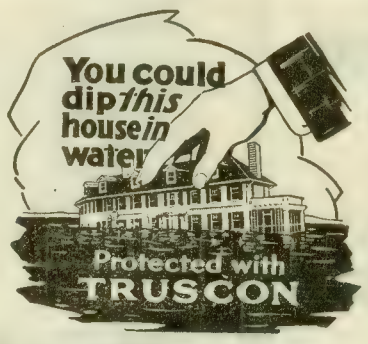
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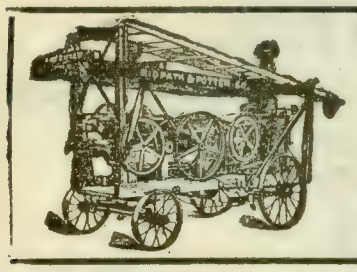
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157, painting, John J. Murphy, 1836 Ludlow street, $2,090. No. 159, painting, H. W. Ehringer, Sixth and Duncannon streets, $1,920. No. 162, painting, H. W. Ehringer, Sixth and Duncannon streets, $2,970.

Office Building, Fifty-third and Thomas avenue, Philadelphia, $68,000. Architect, private plans. Owner, George B. Newton, Franklin Bank Building, Philadelphia. Brick, concrete, 2 stories, 118x40 feet, slag roof, electric light, steam mheat. Contract awarded to Armsrtong & Latta Co., 1926 Sansom street.

Residence, 840 East Haines street, Philadelphia, $15,000. Owner, Robert M. Morford, 6518 Limekiln Pike, Philadelphia. Stone, 3 stories, 23x42 feet, 18x9 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to J. Henry Parker, 5583 Old York road, Philadelphia.


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Residence (add. and alts.), Northwest Corner Fifteenth and Green streets, $12,000. Owner, D. W. Hirlinger, 1514 Green street, Philadelphia. Brick, 2 stories add., 16x25 feet, general alterations. Contract awarded to Sutton & Stephenson, 1317 Washington avenue.

Residence and Store (add.), 4802 Woodland avenue, Philadelphia, $5,000. Architect, private plans. Owner, William Gordina, 5713 Woodland avenue, Philadelphia. Brick, 2 stories add., 12x16 feet, slag roof, pine floors. Contract awarded to Fildsher & Clyman, 2705 South Marshall street.

Store and Storage (alts.), Southwest Corner Twelfth and Sansom streets. Architect, private plans. Owners, Charles L. Brown & Co., 301 Flanders Building, Philadelphia. General alterations and repairs. Contract awarded to Basch & Co., Inc., Ruan and Tackawanna streets.

Residence (add. and alts.), 3141 South Smedley street, Philadelphia, $5,500. Architect, private plans. Owner, Mrs. Edward Smith, on premises. Brick, 3 stories add., 10x18 feet, general alterations. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Store (alts.), Twelfth and Market streets, Philadelphia, $25,000. Architect, private plans. Owners, N. Snellenburg & Co., on premises. General alterations. Contract awarded to William Steele & Sons Co., 219 North Broad street.

Office (add.), 212 South Fifteenth street (rear), Philadelphia, $6,000. Owners, Parrish & Co., on premises. Brick, 1 story add., 40x40 feet. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

Residence, 415 Sanger street, Philadelphia, $5,000. Architect, private plans. Owner, Paul R. Scherer. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Vincent Turner Co., 5432 North Second street.

Cafeteria Building, Sesqui Grounds, Philadelphia, $20,000. Architect, Gabriel B. Roth, 1629 Chestnut street, Philadelphia. Owners, World's Tour Association, care of architect. Frame, 1 story, 50x132 feet. Contract awarded to Frank E. Wallace, 337 South Camac street, Philadelphia.

Exhibition Building, Sesqui Grounds, Philadelphia. Architect, private plans. Owners, Battle of Gettysburg Corp., 300 North Third street, Philadelphia. Frame, 1 story, 40x60 feet. Contract awarded to E. W. McConnell, Benjamin Franklin Hotel, Philadelphia.

Club House (alts.), Northwest Corner Twelfth and Girard avenue, $4,000. Architect, private plans. Owner, J. J. Bailey, 954 North Tenth street, Philadelphia. General alterations. Contract awarded to David Sloan, 4763 North Eighth street, Philadelphia.

Show Room (add. and alts.), 1830 East Somerset street, $3,900. Architect, private plans. Owner, Elmer Shull, 3062 Lawrence street, Philadelphia. Brick, 1 story add., 5x8 feet, general alterations. Contract awarded to Clarence C. Campbell, 6419 Bingham street.

Boiler Room (alts.), 4623 Paul street, Philadelphia, $2,000. Architect, private plans. Owner, S. W. Evans, 4623 Paul street, Philadelphia.. General alterations. Contract awarded to William Steele & Sons Co., 219 North Broad street.

Residences (10), West side Ross street, North of High street, $51,000. Architect, private plans. Owner, Leandros Angelone, 336 East Price street, Philadelphia. Brick, 2 stories, 15x29 feet, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Charles Sinn, 5518 American street, Philadelphia.

Store and Office (add. and alts.), 1227 Market street, $18,000. Architect, private plans. Owner, Miss E. C. Morris, 5442 Germantown avenue, Philadelphia. Brick, third story add., 21x105 feet, general alterations. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Exhibition Building, Sesqui Grounds, Philadelphia, $15,000. Owners, Czecho-Slovakia Legation, Washington, D. C. Frame, 1 story, 20x100 feet. Contract awarded to Master Decorators, Inc., 2702 South Cleveland street, Philadelphia.

Shop (alts.), North side Sedgley avenue, East of Nineteenth street, $7,000. Architect, private plans. Owners, C. H. Wheeler & Co., Eighteenth and Sedgley avenue, Philadelphia. General alterations. Contract awarded to Robert E. Lam bCo., 843 North Nineteenth street, Philadelphia.

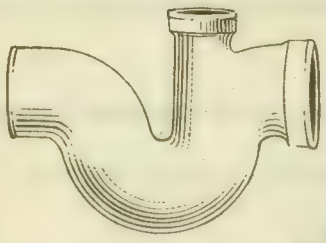
Apartment House (alts.), 5905 Ridge avenue, Philadelphia, $2,500. Architect, private plans. Owner, H. S. Robinson, 536 Hermitage street, Roxborough, Philadelphia. General alterations. Contract awarded to George M. Robinson, 632 Roxborough avenue, Philadelphia.

Store and Residence (alts.), 4325 North Second street, Philadelphia, $3,000. Architect, private plans. Owner, T. Weiss, on premises. General alterations. Contract awarded to Sol. Getz, 4837 North Eleventh street, Philadelphia.

Store and Residence (add.), 1937 Lehigh avenue, Philadelphia, $2,000. Architect, private plans. Owner, Dr. M. E. Usilton, 2463 North Nineteenth street, Philadelphia. Brick, 2 stories add., 12x14 feet, slag roof, pine floors, electric work. Contract awarded to J. H. Kirll, 2465 North Gratz street, Philadelphia.

Residence (add.), 2213 North Broad street, Philadelphia, $2,000. Architect, private plans. Owner, John A. Boger, 2213 North Broad street, Philadelphia. Brick, 2 stories add., 12x24 feet. Contract awarded to John W. Cochrane, 6836 North Seventh street, Philadelphia.

Residences (2) North side Buist Avenue, west of Seventy-eighth Ave., Philadelphia, $10,000 total. Architect, private plans. Owner, Christian Filberg, 7820 Buist Ave., Philadelphia. Brick, 2 stories, 16x51 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Geo. Blong, 7741 Lyons Ave., Philadelphia.


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Store House, 1119 West Lehigh Avenue, Philadelphia, $8,000. Architect, private plans. Owner, Harold P. Mulligan, 509 W. Cumberland St., Philadelphia. Brick, 2 stories, 30x48 feet, slag roof, electric lighting. Contract awarded to H. H. Wehmeyer, 509 W. Cumberland St.

Residence and Store (add. and alts.), 4802 Frankford Ave., $9,000. Architect, private plans. Owner, Geo. Schneider, 4613 Frankford Avenue, Philadelphia. Brick, 2 stories addition, 12x18 feet, general alterations. Contract awarded to D. K. Hiltbeitel, 1501 1501 Hunting Park Avenue.

Residences (2), North side Bleigh Street, east of Tabor Road, Philadelphia, $5500 each. Architect, private plans. Owner, J. Zaiser & Bowe, Tabor and Bleigh Streets, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors. Contract awarded to Harry Gorelick, 2427 Douglass St., Philadelphia.

Stores (5), Haines and Ogontz Streets, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelpiha. Owner, Louis Goldstein, on premises. Brick, 1 story, slag roof, wood floors, electric light, (1) hot air heat, (4) gas steam radiation heat, carpentry and millwork, plumbing, plate glass, bulks. Contract awarded Louis Rosengarten, Otis Bldg., Philadelphia, who are taking subbids due at once.

Indoor Stadium and Gym, Thirty-fourth and Spruce Streets, Philadelphia. Architect, Day and Klauder, Franklin Bank Building, Philadelphia. Owner, University of Penna., 34th and Spruce Streets, Philadelphia. Brick, reinformed concrete, cut stone, steel, 1 story and 2 stories and basement, 344x277 feet, (heating, electric and ventilating, lift reserved), gypsum slab and slag roof, cement, tile, marble and terrazzo floors, metal lath, sawtooth skylights, steel and kalamein doors, metal weatherstrip, shoring, membrane waterproofing, limestone, concrete piles, bluestone, cut cast stone, metal toilet pubicles, rolling steel shutters, soapstone, sanuonyx, linoleum floors, safety treads, tile, monitor steel sash, painting and glazing, hardware, plumbing, wrought iron pipe. Contract awarded H. E. Baton, 1713 Sansom Street, Philadelphia.

Garage and Service Station, Rittenhouse Street, west of Greene St. Architect, Richard McCaskey, 112 S. 16th Street, Philadelphia. $7,000. Owners, Rittenhouse Motor Co., on premises. Brick, stone, 1 story, 60x60 feet, slag roof, cement and pine floors, gas steam heat, electric light, rolled steel skylights, ornamental iron, terra cotta, painting, glazing. Contract awarded to Henry P. Schneider. 3713 Old York Road, Philadelphia.

Garage (add. and alts.), 3915-17 Germantown Ave., $20,000. Architect, private plans. Owner, Peter Jott, on premises. Brick, 1 story addition, 51x160 feet, general alterations. Contract awarded to D. K. Hiltebeitel, 1501 Hunting Park Ave.

Pennsylvania Construction News

Bride No. 255, over Canal at Mount Clare, Pa. Owner, Montgomery County, W. C. Irvine, Controller, Norristown, Pa. Concrete roadway and paving. Owner taking bids due July 7th at 10 A. M.

Hospital (alts. and add.), Norristown, Pa. Owner, Montomery Hospital, A. T. Eastwick, Norristown, Pa. Work contemplated.

School, Heiddell Ave., north of Ridley Rd., Chichester Township, Pa. Architect, Clyde S. Adams, 2038 Spruce St., Philadelphia. Owner, School District of Chichester Township, R. C. Martin, Secretary, Chichester Township, Pa. Brick, 2 stories, 4 room addition, electric, plumbing, heating and ventilating. Owner taking bids due June 30th 2 P. M. Certified check.

Inter-County Bridge over Schuylkill River, Chester and Montgomery Counties. Owner, Montgomery County, W. C. Irvine, Controller, Norristown, Pa. Concrete roadway and paving. Owner taking bids due July 2nd 9 A. M.

Sewer, Lower Chichester Township, Pa. Engineer, C. F. Baker, Chester, Pa. Owner, Commissioner, Lower Chichester, L. E. Pierce, Chichester Township. Owner taking bids at Rock Hill School House, Linwood, Pa., June 21st, 8 P. M., (S. T.) Certified check $100.

Store and Office Building, Sunbury, Pa. Architect, Chas. W. Feil Co., Williamsport, Pa. Owners, M. H. Markley, 124 Market St., Sunbury, Pa. Brick, 3 stories, 33x175 feet. Owner will build.

Hospital, Quakertown, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Quakertown Hospital Association, H. G. Kittleman, Quakertown, Pa. Brick, 40 beds. Preliminary plans to be started.

Park School, Willow Grove, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Abington Township, Glenside, Pa. Revised plans in progress.

Residence, Bethlehem, Pa. Architect, C. M. Lovelace, Bethlehem Trust Building, Bethlehem, Pa. Owner, R. K. Larose, East Broad street, Bethlehem, Pa. Frame, 2 stories, 115x36 feet, shingle roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Residence, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, James Bender, care of architect. Brick, 3 stories, 30x50 feet, slate roof, tile work. Plans in progress.

Grammar School (add.), Essex and Ardmore avenues, Lansdowne, Pa. Owners, Board of Education, F. S. Underhill, president, Lansdowne, Pa. Work contemplated.

High School, Highland and Essex avenues, Lansdowne, Pa. Owners, Board of Education, F. S. Underhill, president, Lansdowne, Pa. Work contemplated.

Store and Apartments (15), Swarthmore, Pa. Architects, The Stuckert Co., Crozer Building, Philadelphia. Owner, William A. Clarke & Co., Packard Building, Philadelphia. Brick, 3 stories, 125x195 feet, irregular, slate and slag roof, hardwood floors, steam heat, electric light, tile and terrazzo work, metal bulks. Plans in progress.

Residence Development, Brookline, Pa. Ar-

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chitects, Wallace & Warner, Franklin Trust Building, Philadelphia. Owner, Thomas Conway, Jr., Drexel Park, Pa. Work contemplated.

School (add.), Nether Providence Township, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School District of Nether Providence Township, Pa. Plans in progress.

Assembly Hall (alts. and add.), Bustleton, Pa. Architect, C. H. Fries, Frankford and Oxford, Philadelphia. Owners, St. Luke's Episcopal Church, Rev. Paul Micou, Bustleton, Pa. Stone, 16x20 feet, 10x30 feet, hot water heat, electric light, tile work, wood shingle roof, maple floors. Ready for bids in a week.

Residence, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Cedar Crest College, care of architects. Brick, 2½ stories, 40x50 feet, Spanish tile roof, hardwood and rubber tile floors, hot water heat, electric light, tile work. Architects ready for bids due in about ten days.

Residence Development and Garages (twin) (96), Ardmore, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, J. H. Oler & Son, 5116 Market street, Philadelphia. Brick and frame, stone and frame, 2½ stories, 21x35 feet, 1 story, 12x17 feet, shingle roof, parquetry, hardwood and cement floors, hot water heat, electric light, receivadors, kitchen equipment. Owners taking sub-bids on first twelve.

Stores (3) and Residence, Ambler, Pa. Architect, private plans. Owner, Michael S. Kireshner, 2419 North Fifty-sixth street, Philadelphia. Brick, steel, 2 stories and basement, 54x75 feet, slag roof, cement and pine, hot water heat, electric, metal lath, ornamental iron work. Owner taking sub-bids due June 17th.

Residences (6), Drexel Park, Pa. Architect, Carl Ziegler, 1012 Walnut street, Philadelphia. Owners, Thomas Conway, Jr., Corporation, 1500 Chestnut street, Philadelphia. Stone, hollow tile, stucco, 2½ stories and basement, 40x70 feet, slate and shingle roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Owners ready for sub-bids in two weeks.

Cottage, Muncy, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, State Industrial Home for Women, Muncy, Pa., care of F. Smith, 658 City Hall, Philadelphia, Pa. All bids rejected. Revised plans in progress.

Grade School, Vera Cruz, Upper Milford Township, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Upper Milford Township School Board, Andrew Heller, Emaus, Pa. Brick, steel, 2 stories, 40x90 feet, built-up roof, composition floors, roof ventilators, safety treads, hollow tile, bond, fire doors, rolled steel sash, metal lath (heating, plumbing and electric separate). All bids rejected. Owners taking revised bids due July 3rd.

Office Building, Pennshurst Farms, Narberth, Pa. Architects, Charles L. Hillman & Son, 400 Chestnut street, Philadelphia. Owner, Percival Roberts, Commercial Trust Building, Philadelphia. Cinder block, brick, cut stone, steel, 1 story and basement, 34x30 feet, asbestos built-up roof, cement and linoleum floors, hollow tile, safety treads, painting and glazing, plumbing, steam heat, electric light, metal lath, tile and marble work, ornamental iron work, bluestone, limestone, metal partitions, brass pipe, terra cotta coping. Architects taking bids due as soon as possible.

Laundry and Power House, Aubrey avenue, Ardmore, Pa. Architect, private plans. Owners, St. Mary's Laundry, Ardmore, Pa. Stone, brick, concrete, steel, 1 story and basement, 146x100 feet, slag roof, composition and cement floors, electric light, metal lath, tile work, terrazzo work, rolled steel sash and skylights, hollow metal doors, ornamental iron work, bluestone, plumbing, roof ventilators, dampmproofing, duraflex floors. Owners taking bids.

School Completion, Greater Providence road, Wallingford, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School Board of Nether Providence, J. R. Hoover, secretary. Interior completion. Plans may be secured on or after June 16th. Deposit $25.00, refunded. Certified check or bond, 5 per cent. Owners taking bids due June 26th. Bids for plumbing, electric, heating and ventilating will be taken at same time. Deposit, $25, refunded.

Post Office Building (add.), Hazleton, Pa. Architect, J. A. Wetmore, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Remodeling and extension. Owners taking bids due June 30th at 3 P. M.

Residence, Wynnewood, Pa. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Clarence L. Somers, care of architect. Oak and pine floors, 2½ stories and basement. Architect taking bids due June 18th.

Hospital (add.), Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Allentown Hospital, E. M. Kronninger, Allentown, Pa. Fireproof, 3 stories, 50x150 feet, slag roof, commposition and tile roof, roof ventilators, hollow tile (heating, plumbing, electric separate). Architects taking bids due July 9th.

Residence (alts. and add.), Latches Lane, Merion, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Dr. E. C. Kirk, on premises. Architects taking bids due June 21st.

Grade School, Sharon, Pa. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Sharon Hill School Board, Sharon Hill, Pa. Brick, cut stone, steel, reinforced concrete, 2 stories and basement, 152x82 feet, Barrett roof, cement and maple floors, metal lath, bluestone, waterproofing, limestone, alberne cast stone (plumbing, heating and electric separate). Low bidders: George H. Evans, Inc., 109 North Thirteenth street, Philadelphia, $61,805. Plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, $4,935. Heating, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, $8,235. Electric, Scutt Electric Co., 218 Cooper street, Camden, $1,355.

School (alts. and add.), Wayne, Pa. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owners, Board of School Directors, Radnor Township, Pa. Bond, demolition, cement and concrete work, structural steel, brick work, iron and brass work, slate work, carpentry and mill work, sheet metal work, metal lath, plastering, painting and glazing, hardware (heating, plumbing and electric separate bids). Low bidders: John P. Kearney, 6731 Haverford avenue, Philadelphia. Plumbing, William Ambrose, Leverington and Umbria streets, Philadelphia. Electric, Walker & Kepler, 531 Chestnut street, Philadelphia.

Pennsylvania Contracts Awarded

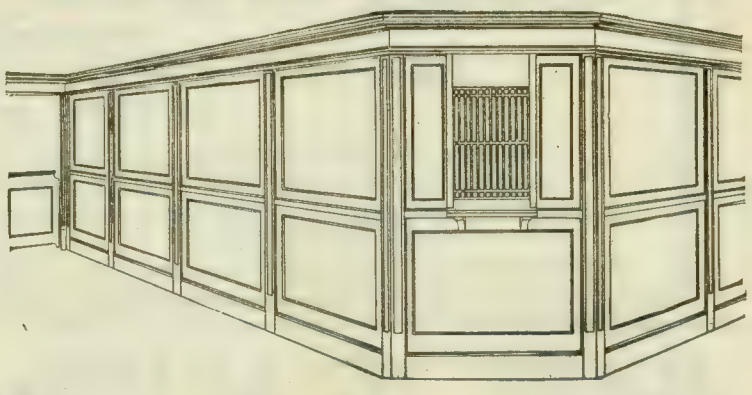
Lodge Building (alts. and add.), Easton, Pa. Architect, A. D. Chidsey, 341½ Northampton street, Easton, Pa. Owners, B. P. O. E., of Easton, care of E. G. Aicher, 418 Ferry street, Easton. Brick, stone, 2 stories, 40x35 feet, slag roof, pine floors, steam heat, electric light, tile work. Contract awarded to R. T. Stewart, Jones Building, Easton, Pa.

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Residence, Heckton, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Mr. Lawall, care of architect. Frame, 2½ stories, 27x38 feet, slate roof, hardwood floors, vapor vacuum heat, waterproofing, electric light, tile work. Contract awarded to Benjamin Schrader, 455 Carlton avenue, Bethlehem.

Convent, Bath, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, St. Mary's Church, Rev. Post, Bath, Pa. Brick, 2 stories, 39x30 feet, slate roof, pine floors, hot water heat, electric light, tile work. Plans in progress. Contract awarded to F. B. Glassmire, Bethlehem Trust Building, Bethlehem.

Church, Catasauqua, Pa. Architect, Robert M. Reeves, 5539 North Third street, Philadelphia. Owners, St. Mary's Roman Catholic Church, Rev. John Steinmetz, Catasauqua, Pa. Brick, steel, 1 story and basement, 58x100 feet, slate roof, wood floors, hot water heat, electric light, demolition. Contract awarded Leo S. Supper, 5619 North Second street, Olney, Philadelphia.

Store and Apartment, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, 3 stories, 30x76 feet, slag roof, pine floors, electric light, tile work, plate glass. Plans in progress. Contract awarded to Peter Dalcim, 955 North Seventh street, Allentown, Pa.

Stores and Apartment, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, name withheld. Brick, 2 stories, 40x80 feet, slag roof, pine floors, plate glass, hot water heat, electric light, tile work. Plans in progress. Contract awarded to Peter Dalcim, 255 North Seventh street, Allentown, Pa.

Office Building, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Charles Evans Cemetery Co., Reading, Pa. Brick, cast stone, 1 story, 40x70 feet, slate roof, electric light. Contract awarded to Charles H. Schlegel, 2250 Perkiomen avenue, Reading, Pa.

Grade School, Shavertown, Pa. Architect, George P. McLean, Second National Bank Building, Wilkes-Barre. Owners, Kingston Township School District, J. B. Schooley, Trucksville, Pa. Frame, 2 stories, 23x60 feet (4-room addition) (heating, plumbing and electrical work separate). Contract awarded to Bonham & Troy, Forty Fort Pa. Electrical to Johnson Brothers, 407 North Main street, Wilkes-Barre, Pa.

Residence, Church road, near Paper Mill road, Enfield, Pa. Architect, Arthur Brockie, 254 South Fifteenth street, Philadelphia. Owner, Mrs. J. B. Young, 6640 Wayne avenue, Philadelphia. Brick, frame, 2½ stories and basement, 42x30 feet, wing 25x19 feet, shingle roof, oak and pine floors, plumbing, hot water heat, electric light, tile work, ornamental iron work. Contract awarded E. Allen Reeves, Abington, Pa.

Garage (public), Wilkes-Barre, Pa. Architect, L. V. Lacy, 45 Owen street, Forty Fort, Pa. Owner, Frank Martz, 184 East Main street, Plymouth, Pa. Brick and terra cotta, 1 and 2 stories, 129x154 feet, slag roof, cement floors, electric light. Contract awarded to S. J. Sondoni, 45 Owen street, Forty Fort, Pa.

New Jersey Construction News

Parochial School, Fifth and Vine Streets, Camden, N. J. Architect, Geo. I. Lovatt, 223 S. Sydenham St., Philadelphia. Owner, Holy Name R. C. Church, Rev. J. Whelan, Camden, N. J. Stone, 3 stories and basement, 70x125 feet, slate roof, maple floors, steam heat, electric light, tile work, lockers, slate black board, ornamental plastering. Plans completed. Architect ready for bids.

Armory, Burlington, N. J. Architects, Division of Architecture and Construction, Trenton. Owners, State Military Board, Department of Institutions and Agencies, State House, Trenton, N. J. Lowest bidders: C. J. Smith Const. Co., 202 Academy St., Trenton, N. J., $30,630. W. C. Cook, Mt. Holly, N. J., $32,473. Plumbing, Leonard J. Hunt, Burlington, N. J., $2,174.94. Heating, Mechanical Equipment Co., 214 S. 12th St., Philadelphia, $4,194. Electric, J. Goldy & Son, Burlington, N. J., $590.

Residence, 1132 Lois Ave., Camden, N. J., $3,500. Architect, private plans. Owner, G. Raymond Richman, 1202 Elm Ave., West Collingswood. Frame, 1½ stories, 22x34 feet, slate surface roof, hot air heat, electric light. Permit granted.

High School (add.), Wildwood, N. J. Architect, V. B. Smith, Atlantic City, and L. H. Boyer, Wildwood, N. J. Owner, Board of Education, Wm. Todd, Secretary, Wildwood, N. J. Brick, architect terra cotta, cut stone, steel, 2 stories and basement, 124x131 feet, (plumbing,heating and electric and ventilating separate), slag roof, mineral and cement floors, hollow tile, safety treads, roof ventilators, dampproofing, ornamental iron work, bond, hollow metal doors, metal lath, cinder concrete blocks, granite metal partitions. Low Bidders: Wills Bill Co., 1706 Sansom St., Phila., $224,422. D. A. McClelland, Drexel Bldg., Philadelphia, $226,397. Plumbing, J. Kentner, Wildwood, N. J., $13,786. Heating, Richard Johnson, Ocean City, N. J., $38,738. Electric, Strang Elec. Co., 214 S. Seventh St., Philadelphia, $11,000. All bids rejected.

Store, Hanover and Broad streets, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton. Owners, Donnelly Realty Co., care of architect. Steel, brick, stone trim, 4 stories, 40x80 feet, slag roof, yellow pine floors, hollow tile, safety treads, roof ventilators, iron stairs, ornamental iron, plate glass, fire doors, steel sash and skylights, tile and marble, metal lath (heating, plumbing and electric reserved). Plans in progress.

Cottage, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Louis Champion, Pleasantville, N. J. Brick, 2 stories, 28x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, Judge Ingersoll, care of architect. Brick, stucco, 2½ stories, 75x35 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence and Garage, Washington, N. J. Architect, C. M. Lovelace, Bethlehem Trust Building, Bethlehem, Pa. Owner, O. E. Merkel, Washington, N. J. Brick, 2½ stories, 40x75 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Revised plans in progress.

School, Deep Water, Salem County, N. J. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owner, Board of Education, Lower Penn's Neck Township, N. J. Cement block, stucco, 1 story and basement, 6 rooms, steam heat, electric light, slag roof, pine floors. Ready for bids in two weeks.

Residence, Bloomsbury, N. J. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, F. B. Morgan, Bloomsbury, N. J. Frame and stucco, 1½ stories,

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25x50 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner will take bids.

Bank, Pennington, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, First National Bank of Pennington, care of architect. Brick, cut stone, steel, 1½ stories, 36x63 feet, built-up roof, marble floors, metal window guards, ornamental plaster, vault and vault doors, bronze, tile and marble, metal lath (heating, plumbing, electric and vault reserved.) Architect will take bids in one week.

Hotel (alts.), Pacific avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Maurice Fishman, 2315 Pacific avenue, Atlantic City. General interior alterations, kitchen equipment, hot water heat, tile and marble work. Owner taking sub-bids.

Residences (6), Wildwood, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, F. J. Pedrick, 1415 Atlantic avenue, Atlantic City, N. J. Stucco, frame, 2 stories, 22x43 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Casino Building, Wildwood, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, F. J. Pedrick, 1415 Atlantic avenue, Atlantic City, N. J. Stucco, frame and steel, 1 story, 60x110 feet, slag and tile roof, maple floors, hot water heat, electric light. Owner will build.

Bank and Office Building, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic Ciey, N. J. Owners, Bankers' Trust Co., E. Richards, president, 1210 Atlantic avenue, Atlantic City, N. J. Fireproof, 4 stories, 25x120 feet, slag and concrete floors, composition, tile and maple floors, hollow tile, bond, vault, bronze, tile and marble, metal lath (heating, plumbing and electric separate). Architect taking bids.

Residence (alts. and add.), Edgewater Park, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Joseph C. Gill, Edgewater Park, N. J. Stone, 2 stories, 18x20 feet, tin roof, tile floors, mill work, plumbing, iron conductors, painting and glazing. Architect taking bids due June 18th.

Residences (22), 516-58 Woodland avenue, Camden, $77,000. Architect, Harold A. Allen, 526 Stevens street, Camden, N. J. Owners, Maxwell-Smith Corporation, 603 Park avenue, Collingswood, N. J. Brick, 2 stories, 16x31 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Infirmary, State Home for Girls, Trenton, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Brick, concrete, steel, cut stone, 2½ stories and basement, 33x75 feet. Lowest bidders: Karno-Smith Const. Co., Broad Street Bank Building, Trenton, N. J., $45,466, alternate $41,266; C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., $47,000, alternate $42,500. Plumbing, J. T. Evans, 158 South Main street, Wilkes-Barre, Pa., $4,653.34. Heating, J. T. Evans, 158 South Main street, Wilkes-Barre, Pa., $2,261.64. Electric, Mercer Elec. Co., Fitzcharles Building, Trenton, $5,500.

School, Tuckerton, N. J. Architect, J. Noble Pierson & Son, Perth Amboy, N. J. Owners, Board of Education, Tuckerton, N. J. Low bidders: Van Doren & Emens, New Brunswick, N. J., $92,500; J. M. Yardley, 1700 Walnut street, Philadelphia, $93,993. Electric, H. C. Larkin, care of owner, $2,963. Plumbing, D. H. Moore, Atlantic City, N. J., $3,734. Heating and ventilating, Burnslane & Richards, care of owner, $11,236.

Bridge, Monmouth County, N. J. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Monmouth County, Route 4, Section 34, Keyport Cutoff. I beam bridge on concrete abutments across Luppatcong Creek. Clear span 30 feet, roadway 40 feet. Concrete structural steel, foundation and channel excavation, timber piling. Deposit of $10.00. Certified check 10 per cent. of bid. Owners taking bids due June 28th at 11 A. M. (Eastern Standard Time).

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J.

Hunterdon County, Route 9, Section 16A, Bloomsbury-West Portal. Excavation, rock excavation, double line reinforced concrete pavement.

Gloucester County, R-20, Section 6, Franklinville-Malaga. Unclassified excavation, gravel shoulders, double line reinforced concrete pavement.

Essex and Hudson Counties, Route 1 extension from Marcy avenue, Jersey City, to Blanchard street, Newark. Removal of wood block pavement, excavation, track resurfacing, concrete foundation, reclipped stone block pavement, bituminous binder course, bituminous concrete surface, Type CABC-1. Deposit, $10. Certified check, 10 per cent. Owners taking bids due June 28th at 11 A. M. (Eastern Standard Time).

New Jersey Contracts Awarded

Hall of Records (add. and alts.), Toms River, N. J. Architect, P. P. Elkinton, Toms River, N. J. Owners, Ocean County Board of Chosen Freeholders, Toms River, N. J. Brick, stucco, 1 story, 89x40 feet, (plumbing, heating and electric work, separate) composition and cement floors, composition roof, metal lath, rolled steel sash, steel doors, ornamental iron work, hollow tile. Contract awarded to W. Preston Newman, Lakewood, N. J., $49,972.

Building (add.), 10th and Linden Sts., Camden, N. J., $26,000. Architects, Edwards and Green, Van Russ Building, Camden, N. J. Owners, City of Camden, City Hall, Camden, N. J. Brick, 1 story, 55 feet 10 inches x 87 feet, 10 inches, slag roof. Contract awarded to Geo. W. Shaner & Son, Palmyra, N. J.

Garages (11), North side Woodland Avenue, East of Eighth Street, Camden, N. J., $3,000 total. Architect, private plans. Owners, Harper & Benson, Camden, N. J. Block, 1 story, 9x17½ feet, composition roof, cement floors. Contract awarded to Bennett-McLaughlin Co., 3434 Sansom St., Philadelphia.

Bank and Arcade Building, Tennessee Ave. and Boardwalk, Atlantic City, N. J. Architect, Lockwood Greene Co., 1 Pershing Square, New York. Owner, Boardwalk National Corp., Atlantic City, N. J. Brick, steel, cast stone, 2 stories and arcade, 377x100 feet, slag and tile roof, cement floors, elevators, ornamental iron work, metal partitions, bronze work, steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow metal sash, fire doors, ornamental iron work. Contract awarded to Geo. A. Fuller, Morris Bldg., Philadelphia.

Parkway School (add.), Ewing Township, N. J., $53,578. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, Ewing Township School Board, Mr. Latham, clerk, care of architects. Brick, steel, 3 stories, 48x36 feet, slag roof, maple floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, iron stairs, iron work, fire doors, hollow metal sash, metal lath (heating, plumbing and electric separate). Contract awarded to Jackson Brothers, 1010 Hamilton street, Trenton. Plumbing to William Boyer, 510 Stuyvesant street, Trenton, N. J., $2,290. Heating and ventilating to Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $8,270. Electric to Jackson Electric Co., Forst Richey Building, Trenton, N. J., $1,700. Painting to J. Elmer Murphy, Trenton, N. J., $2,370.

Supply House, Sixth and Everett streets, Camden, N. J., $75,000. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, Henry B. Robinson, Franklin Trust Building, Philadelphia. Brick, steel, 1 story and basement, 150x210 feet, slga roof, cement floors, plumbing, steam heat, electric light, rolled steel sash and skylights, ornamental iron work. Contract awarded Nelson-Pedley Const. Co., Corn Exchange Building, Philadelphia.

Bank and Office Building (add.), Fifth and Market streets, Camden, N. J. Architects, David, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Land Title Guaranty Co., Mr. Holyburton, on premises. Brick, cut stone, steel, 4 additional stories, 100x38 feet, slag roof, cement floors, steam heat, electric light, hollow metal and kalamein doors, ornamental iron work, rubber floors. Contract awarded without competition to Cramp & Co., Denckla Building, Philadelphia.

Engineers' Residence, Lakeland, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Board of Chosen Freeholders, Court House, Camden, N. J. Brick, stone, 2 stories, 35x20 feet, 16x18 feet, slate roof, pine floors. Contract awarded to George Brandt, Blackwood, N. J., $11,100.

Jail, Bridgeton, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, Board of Freeholders, Cumberland County, W. Phifer, Bridgeton. Contract awarded to H. H. Hankin, Bridgeton, N. J. Electric, Cumberland Electric Co., Bridgeton, N. J. Plumbing and heating, C. W. Richards, Bridgeton, N. J.

Store Building, Merchantville, N. J. Engineer, A. B. Kister, 1204 Chancellor street, Philadelphia. Owners, American Stores Co., 424 North Nineteenth street, Philadelphia. Brick, cement block, 1 story and basement, 21x55 feet, hot air heat, electric light. Contract awarded to Lloyd Cross, Inc., 16 North Front street, Philadelphia.

Residence, Pennington, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, J. H. Hankins, Pennington, N. J. Frame, 2½ stories, 35x70 feet, slate roof, hardwood floors, hot water heat, electric light ,tile work. Contract awarded to William Sked, Pennington, N. J.

Residence, 1598 Kaighn avenue, Camden, N. J., $15,500. Architect, Alfred Green, Philadelphia. Owner, Mrs. Ella Toy, Camden, N. J. Block and stucco, 2½ stories, 34x26 feet, asbestos roof, hot water heat, electric light. Contract awarded to Henry Orlik, Collingswood, N. J.

Building (add.), Southeast Corner Fifth and Berkley streets, Camden, N. J., $10,000. Architect, Harold Allen, 536 Stevens street, Camden, N. J. Owners, Freihofer Baking Co., Twentieth and Indiana avenue, Philadelphia. Brick, 2 stories add., 18x78 feet, slag roof, electric light. Contract awarded to Lewis T. West, Fifth and Royden streets, Camden.

Building, Sales Room, Garage and Offices, New Brunswick, N. J. Architect, R. A. Schuman, Trenton, N. J. Owner, name withheld, Concrete, stone, steel, 3 stories, 167x55 feet, irregular, slag roof, cement floors, hollow tile, plumbing, ventilators, steam heat, electric light, tile work, steel sash, skylights, fireproof doors, miscellaneous iron work, plate glass, leaded glass. Contract awarded Woodland Const. Co., Sixty-fifth and Chester avenue, Philadelphia.

Miscellaneous Construction News

Restaurant and Office Building, 225-27 West Forty-second street, New York, $60,000. Architects, The Stuckert Co., Crozer Building, Philadelphia. Owners, Bickford's, Inc., 156 West Seventy-second street, New York. Brick, steel, 2 stories and basement, steam heat, electric light, tile and marble work, terrazzo and brass dipped floors, bronze work, plumbing, architectural terra cotta, metal bars. Plans in progress.

Residence and Garage, Selbourne Farms, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, Colonel William Spruance, on premises. Stone, frame, 2½ stories and basement, 62x78 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Architects taking bids due June 18th.

Road Work, Delaware. Owners, State Highway Department, Dover, Del.

Contract 64, Rogers Corner Cut Off, 0.73 mile. Low bidders: D. E. O'Donnell & Son, Ridley Park, Pa., $48,937.50.

Contract 66, Kennett Pike Drainage, 400 lineal feet. Low bidder: J. F. O'Neal, Mt. Cuba, Del., $975.

Contract 67, Elliott's Crossing (Bridgeville, 0.40 mile. Low bidder: W. W. Truitt, Lincoln City, Del., $2,482.

Contract CN29, Mermaid-Milford Cross Roads, 3.55 miles. Low bidder: D. E. O'Connell & Sons, Ridley Park, Pa. Metal joint, $166,529. Non-metal joint, $167,657.

Contract CS48, Greenwood-Owens Station, 3.27 miles. Highway Eng. & Const. Co., Selbyville, Del. Stone, $81,740.50. Slag, $77,941.50.

Miscellaneous Contracts Awarded

Residence and Garage, Reynolda Park, Winston-Salem, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, George W. Coan, Jr., care of architect. Hollow tile, stucco, 2½ seories, 100x35 feet (plumbing, heating and electric reserved), slate roof, hardwood floors, metal lath, tile work. Contract awarded Fogle Brothers, Winston-Salem, N. C.

Sunday School, Reynolda, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owners, Reynolda Presbyterian Church, Reynolda, N. C. (Plumbing, heating and electric reserved). Contract awarded J. A. Gardiner, Charlotte, N. C.

Lunch Room and Apartment (alts. and add.), 156 West Seventy-second street, New York. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Bickford, Inc., on premises. Tile, marble, bronze work, steam heat, electric light, hardwood floors, cafeteria kitchen and restaurant equipment. Contract awarded Kuhn, Smith & Harris, 461 Eighth avenue, New York.

"Facts are stubborn things." Advertise only the truth about your product and watch the result.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 7, 1926. Sealed Proposals will be opened in this office at 3 P. M., June 30, 1926, for remodeling and extension to the United States Post Office, Hazleton, Pa. Drawings and specifications may be obtained from the custodian of the building, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 11, 1926. SEALED PROPOSALS will be opened in this office at 3 P. M., July 6, 1926, for remodeling and enlarging the U. S. Post Office at Beaver Falls, Pa. Drawings and specifications may be obtained from the Custodian at Beaver Falls, Pa., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 372)

The officers elected were: President, O. W. Ketcham, of O. W. Ketcham; Secretary, Ralph W. Wheeler, of Excelsior Brick & Steel Sales Company; Treasurer, A. J. Janeway, of the Cox Janeway & Company.

The other firms represented in this organization were: Hydraulic Press Brick Company, A. S. Reid & Company, Wilkes-Barre Clay Products Company, Cambria Clay Company.

THERE IS NO SUBSTITUTE*

By J. S. Elwell†

Lime is indispensable in construction. It has always been used, it is used today, and will be used whenever and wherever permanent and economical building is done. Its construction uses fall into the four main classes of stucco, plaster, mortar and concrete, in each of which special advantages are noted. Stucco, which is fundamentally a covering to concealing and protecting other construction, must be composed of material which will withstand all weather conditions. That lime stucco meets all these conditions has been demonstrated in all sections of the world and in all ages. Lime stucco is not only durable but is economical. It may be finished in any desired texture or color and the ease with which it works makes possible uniformity in the appearance of the finished coat.

No use of lime is more important than interior plaster. It has been proven in the laboratory and in the field as well that lime plaster protects metal from corrosion, is a fire retardant, and is the most efficient for sound insulation. Lime mortar was the first mineral binder used by man when he started to build and has continued through the centuries as the best mortar material. Its durability is established, its strength is greater than is required under the types of construction now in common use, its economy is great, and its plasticity is necessary.

Lime plays an important part in good concrete construction in which it acts as a lubricant, facilitating placing and at the same time preventing segregation. It makes the concrete permanently watertight. In the field it makes possible the use of less water in mixing structural concrete and as is well known this reduction in mixing water increases the strength of the concrete. Concrete containing lime is more uniform in the forms than concrete without. The stresses induced by variations in the moisture content of hardened concrete are materially reduced when lime is added, and a smoother, more uniform, and lighter colored surface is obtained.

*Abstract of paper delivered at Eighth Annual Convention N. L. A., French Lick Springs, Indiana, June 8-11, 1926.

†Manager Construction Department, National Lime Association.

ACORN TILE COMPANY
Tile Work
INTERIOR AND EXTERIOR
CLEMENTON, N. J.
Mosaic Ceramic and Quarry Tile Floors
Bell Phone—Laurel Springs 112 R 2

TILE
MARBLE
MOSAIC
CERAMICS
Camden Tile Co.
1484 Bradley Avenue
CAMDEN, N. J.
BELL PHONE
CAMDEN 3827 W

GENERAL INSURANCE
SMITH-AUSTERMUHL CO.
5th and Market Streets, Camden, N. J.
BELL PHONE, CAMDEN 3210
KEYSTONE, CAMDEN 3147
SURETY BONDS

Making wood difficult for rot fungi to live in is one service to the cause of forestry within the power of the ordinary householder, according to a statement made by Aldo Leopold, associate director of the U. S. Forest Products Laboratory.

Every year, according to Mr. Leopold, a quantity of wood equal to two-thirds of the annual growth on all our forests or about 4 billion cubic feet is used to replace wood destroyed by decay in service. "This loss," says Mr. Leopold, "not only includes such items as telephone poles, and railroad ties, but also takes in the ravages of decay in wooden steps, sills, porches and other parts of frame buildings which are the concern of the home owner.

"The worst error in wood construction so far as decay is concerned is to place wood in contact with the soil. The soil not only provides a practically continuous supply of moisture for fungi, but it usually will infect the wood directly by contact with fungi already growing in the organic matter in the top dirt.

"Frequently porch columns which are well painted and in what appears to be well ventilated places develop decay at the base. The reason is most apt to be found in water seeping in under the foot of the column and remaining to support the growth of fungi. If wood which is subject to wetting outdoors is placed so that all mositure drains off quickly and so that it is open to the drying effect or circulating air, decay is not likely to develop. Decay fungi, like humans, live on air, water, and food, wood in the case of fungi being the food. Obviously, the only element which can be kept away from them to any effective degree is moisture.

"The man who never gets into the forests may not be able to see clearly how he can help combat forest fires, the arch-enemy of growing trees. He can, however, help reduce a waste of timber comparable to that from forest fires," Mr. Leopold concluded, "by fighting decay on his own front porch."

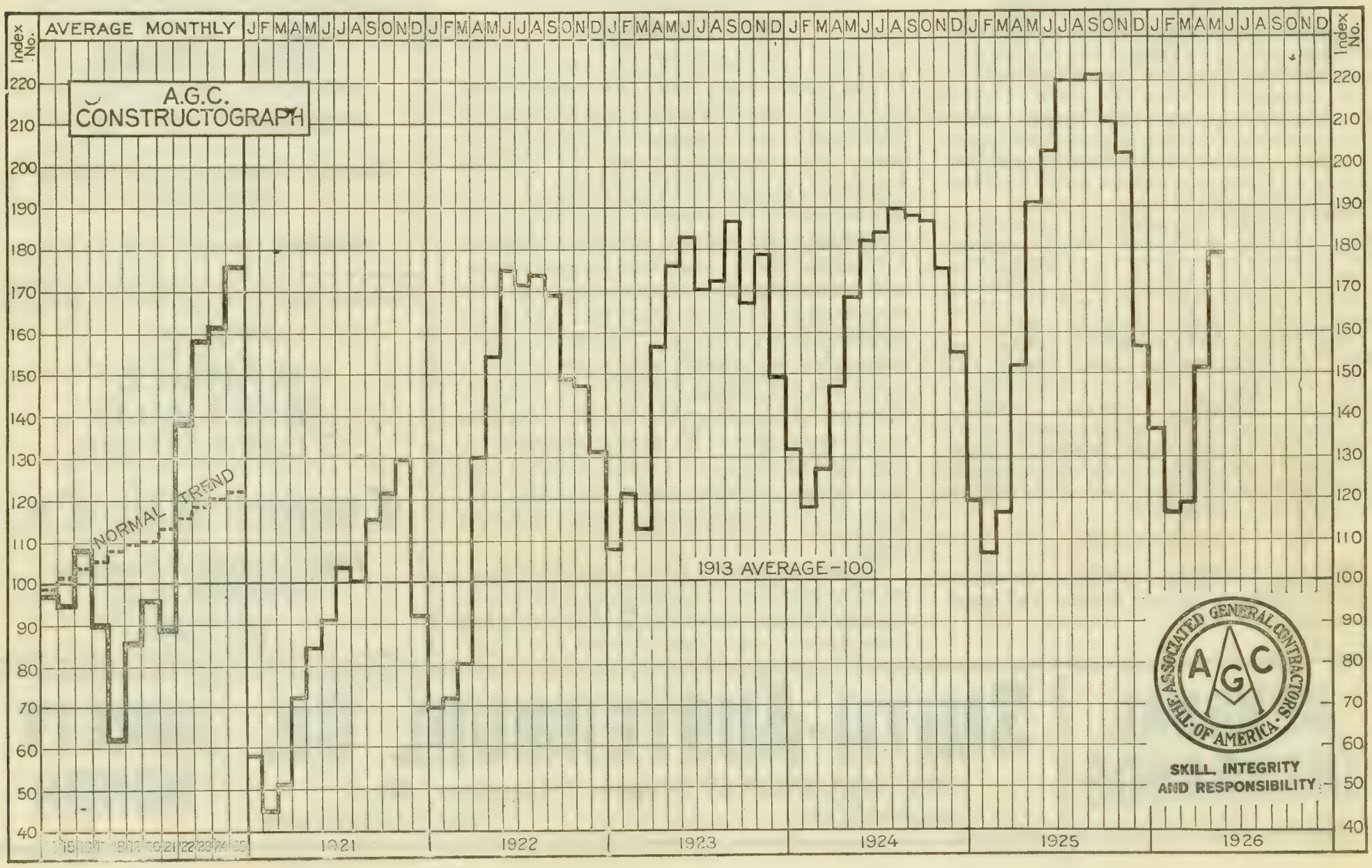
If your sales-talk is keyed to interest men who build it should occupy space every week in the "Guide," the only building news magazine this side of Manhattan Island.

Washington, June 15.—Briskness of construction activities during May resulted in an increase of 18 per cent. over the volume of work registered for April, according to statistics compiled by the Associated General Contractors of America. The amount of construction performed during the first five months of 1926 exceeds the total for the corresponding portion of last year, the comparative figures show.

Construction costs rose during May to the highest position they have reached since July, 1925. The increase, coming despite the fact that prices of construction materials dropped appreciably during the month, reflected wage advances. Wages in the construction industry last month reached the highest average they have held since 1920, an increase of 2 points placing them at an index number of 228, based on the 1913 figure.

The volume of contracts awarded during the first months of this year exceeds by 16 per cent. the volume registered by the corresponding period last year. Figures on building permits issued since the first of the year are practically equal to those covering the same period of 1925. The totals on contract awards and permits issued in April were slightly lower than the corresponding figures for April, 1925.

The average of prices paid for construction materials was lower last month than in May of any year since 1922. Drops in prices of cement and common brick in some sections were responsible for continuance of the decline, which has been steady since June, 1923.



Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
rchitectural Cast Cut Stone Co.....Westmont, N. J.

ARCHITECTURAL IRON WORK
aker City Art Metal Works,
2445 N. Second St., Phila.

ARTESIAN WELLS.
idpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
ell, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
ue Print Shop.....1520 Sansom St., Phila.
obbins, Chas. H., Co.....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
ell, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER.
ue Print Shop.....1520 Sansom St., Phila.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
ell, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS.
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
x, Janeway, & Co..Real Estate Trust Bldg., Phila.
M. & C. M. Siner..Church and Tacony Sts., Phila.
celsior Brick & Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving).
tcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
tchell Bros. .....2125 Race St., Phila.
iser, M. J. .....4238 Old York Road, Phila.
seph Rotornado.....4740 Milnor St., Phila.

BUILDERS' SUPPLIES.
rvice Supply Corporation,
20th and Venango Sts., Phila.
e Van Sciver Corporation,
The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
iskey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
chitectural Cast Cut Stone Co. ...Westmont, N. J.
neland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
e Van Sciver Corporation.
The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
Lauro, John.....7732 Ardleigh St., Phila.
rsch, Wm. F. .....Narberth, Pa.
ssiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.

COLUMNS (Metal).
arce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE SEWER PIPE.
oudsburg Septic Tank Co..328 Chestnut St., Phila

CONCRETE WORK.
rsch, Wm. F. .....Narberth, Pa.
ssiah, Frederick.. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
vitt, Paul J. .....1101 S. 2nd St., Phila.
e T. Ward Co. .....617 Filbert St., Phila.
rvice Supply Corporation, 20th and Venango Sts.

CORK FLOORING
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.
lby Battersby & Co. .....810 Noble St., Phila.

CURTIS WOODWORK.
llingham Co ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
ilding News Pub. Co. ...1530 Chestnut St., Phila.

DAMPPROOFING.
ti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
rnett Bingswanger.....829 N. 3rd St., Phila.
ncrete Waterproof Paint Co..829 N. 3rd St., Phila.
ster Builders Co., ...Otis Bldg., Phila.
uscon Laboratories.....1505 Race St., Phila.

DOOR BEDS
rphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS.
bbins, Chas. H., Co. .....1729 Sansom St., Phila.
ber, F. Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

EXCAVATING.
rsch, Wm. F. .....Narberth, Pa.
itary Sewage Disposal Corp..40 S. 52nd St., Phila.

FENCES.
tit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
tts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
lsbord, Wolf .....4437-43 Ludlow St,. Phila.

FINANCING (BUILDING)
mmercial Advance Corp., 1011 Chestnut St., Phila.
rtgage Extension Corp.,.1011 Chestnut St., Phila.

FIREPROOFING.
arce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES.
E. Lingo & Son .....Camden, N. J.

FLOOR HARDENER.
ti-Hydro Waterproofing Co., 24th and Parkway.
ncrete Waterproof Paint Co...829 N. 3rd St., Phila.
ster Builders Co., ...Otis Bldg., Phila.
uscon Laboratories.....1505 Race St., Phila.

FLOORING (Rubber Tile).
milton Rubber Mfg. Co. ..2313 Walnut St., Phila.
by Battersby & Co. .....810 Noble St., Phila.

FLOOR PLATES.
od. Alan, Iron & Steel Co..Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. .....44 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.

GAS RANGES.
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GRADING
Harsch, Wm. F. .....Narberth, Pa.

GRANITE
Architectural Cast Cut Stone Co. ...Westmont, N. J.
John Meehan & Son.....916 W. Dakota St., Phila.
Vineland Architectural Cast Stone Works,
Vineland, N. J.

HARDWARE (Builders').
Devitt, Paul J. .....1101 S. 2nd St., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....7038 Gray's Ave., Phila.

HEATING BOILERS.
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.

HOLLOW TILE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

HOT WATER GENERATORS.
Edwin Elliot Co. .....560 N. 16th St., Phila.

INSURANCE.
Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
1711 Chestnut St., Phila.
Smith-Austermuhl Co. .....Camden, N. J.

IRON AND STEEL BARS AND PLATES.
Nicetown Plate Washer Co.1844 W. Juniata St., Phila.
Potts, Horace T. & Co. ....Erie Ave. and D St., Phila.
Wood, Alan, Iron & Steel Co...Widener Bldg., Phila.

IRON AND STEEL (Structural and Ornamental)
DeCou, Richard Co. .....11th and Noble Sts., Phila.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Livezey, Thos. H. ..American and Luzerne Sts., Phila.
Montgomery Iron & Steel Co..918 W. Berks St., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Reisbord, Wolf.....4437-43 Ludlow St., Phila.
Whartenby, Harry A. .....10 S. 18th St., Phila.

KITCHEN CABINETS.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.

LEVELS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

LIGHTING FIXTURES.
Longaker, Abram F. .....Bourse Bldg., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LIGHT IRON CONSTRUCTION.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LINOTILE.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

LUMBER.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Ketcham, Howard.....3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

LUMBER (Wholesale).
J. Randall Williams & Co.,
1031 Commercial Trust Bldg., Phila.

MARBLE AND MOSAIC.
Acorn Tile Co. .....Clementon, N. J.
Belfi Bros. Co. .....1923 Market St., Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. .....433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.
Roman Mosaic & Tile Co. .....435 Green St., Phila.
Wm. G. Wilson.....2313 Walnut St., Phila.

MASON BUILDER.
D'Lauro, John.....7732 Ardleigh St., Phila.

METAL LATH.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
John S. Raynor.....2300 E. Lehigh Ave., Phila.

METERS.
Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

MILLWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS.
Weber, F., Co. .....125 S. 12th St., Phila.

PLASTERER.
Joseph Rotornado.....4740 Milnor St., Phila.
Joseph Sterling.....Camden, N. J.

PLASTERERS' SAFETY CLIPS.
John S. Raynor.....2300 E. Lehigh Ave., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., Phila.

PORCH ENCLOSURES.
Malia, Thomas .....226 W. Mentor St., Phila.

RADIATOR CABINETS.
Radiator Cabinet Co. .....Drexel Bldg., Phila.

RANGES.
Abram Cox Co....American and Dauphin Sts., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ....1026 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

REFRIGERATORS.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co.....1026 Arch St., Phila.

REINFORCING BARS.
Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
Nicetown Plate Washer Co., Inc.,
1844 W. Juniata St., Phila.
Penn Steel Service Co. .....Perry Bldg., Phila.
H. T. Potts & Co. ....Erie Ave. and "D" St., Phila.

ROAD BUILDING.
Harsch, Wm. F.....Narberth, Pa.

ROAD MACHINERY.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation, 20th and Venango Sts.

ROOFING.
Benjamin Foster Company,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.

ROOFING MATERIALS.
Service Supply Corporation,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.

ROOFING SLATE.
Chapman Slate Co .....Bethlehem, Pa.

ROOFING TILE.
Ketcham, O. W. .....121 N. 18th St., Phila.

RUBBER FLOORING.
Hamilton Rubber Mfg. Co. ..2317 Walnut St., Phila.
Selby Battersby & Co. .....810 Noble St., Phila.

SAFETY GUARDS.
Potts, Horace T., & Co...Erie Ave. and D St., Phila.

SAND AND GRAVEL
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

SCAFFOLDING.
Patent Scaffolding Co. .....2835 Bridge St., Phila.

SCREENS.
Malia, Thomas.....226 W. Mentor St., Phila.

SEPTIC TANKS.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

SEWAGE EJECTORS.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

SEWERAGE WORK.
Harsch, Wm. F. .....Narberth, Pa.

SEWER PIPE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.

SHEETROCK (Wall Board).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
Shaw, James, & Son Co.,
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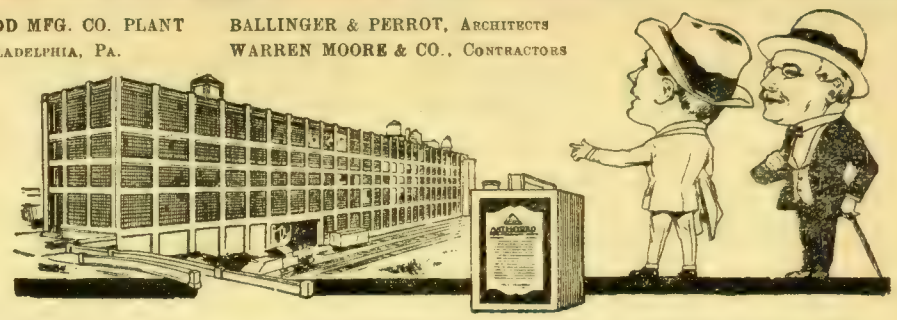
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June 23, 1926

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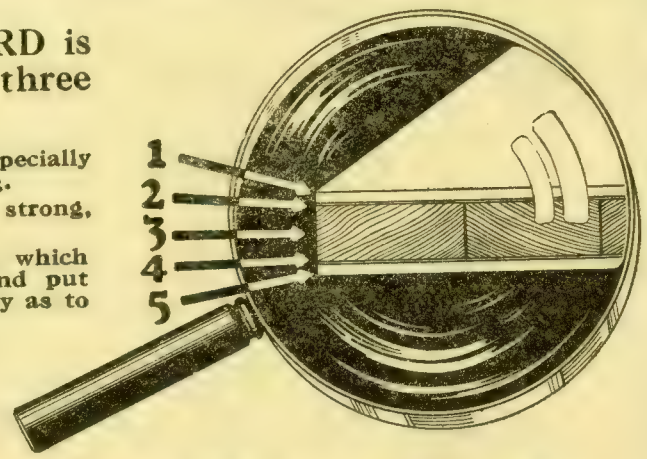
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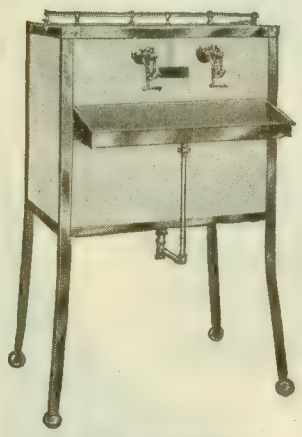


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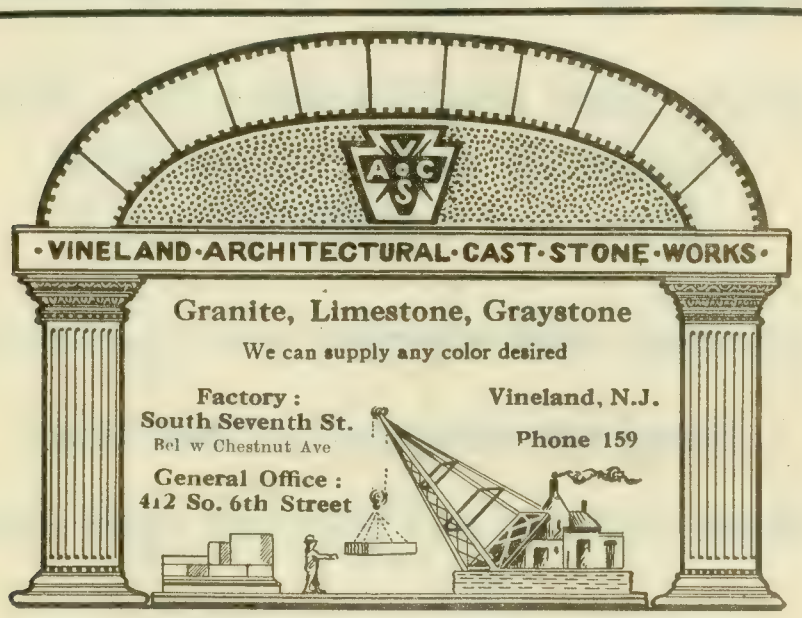
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June 23, 1926

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As The Editor Sees It

PROPER METHODS OF CONSTRUCTING ASPHALT TENNIS COURTS

By W. E. Rosengarten, *Engineer, The Asphalt Association, New York, N. Y.*

Interest in lawn tennis has been increasing in recent years and with it there has developed a strong desire for more nearly perfect court surfaces. The qualities which are sought are greater smoothness than can usually be retained in the ordinary sand clay tennis court, and greater firmness and resiliency. Paved surfaces, particularly those of asphalt, permit of fast and true play without serious fatigue or injurious effect upon the players. An important consideration from the standpoint of ultimate economy is the construction of a surface that can be kept in perfect condition at small labor and expense throughout the playing season.

Of the many thousand of tennis courts that exist throughout the United States only about 10% have been given hard, smooth, paved surfaces and the trend toward the best in tennis courts is, I believe, therefore, only in its initial stages. The most satisfactory results thus far obtained in modern playing surfaces are with some form of construction either of asphalt, sand and stone mixtures or macadam bound with asphalt and constructed similarly to the paving on our streets and highways. England has made extensive progress in this direction and has not only reached a high degree of efficiency in constructing and maintaining asphalt tennis courts but has obtained some very beautiful effects by incorpating into the finished surface red crushed tile, or treating it with a green solution, thus presenting a very pleasing color scheme either contrasting or harmonizing as desired, with the borders and terraces of green turf.

While there are asphalt paved courts located at Detroit, Michigan; South Bend, Indiana; Calgary, Canada, and other points, they are most common in the Pacific Coast section of the country. Their general use there is due largely to the fact that in California is obtained an abundance of petroleum which yields asphalt, a popular and readily available local product. Because of the greatly increased use of asphalt for paving and roofing within the past few years and the establishment of asphalt plants at convenient points, sources of supply and competent construction facilities for asphalt courts are now within easy reach of any community. While the greater portion of the asphalt supply in the United States is obtained from Mexico, petroleum asphalt is also obtained from the Middle West, Southwest and the Pacifist Coast and Rocky Mountain sections.

Asphaltic tennis court surfaces are waterproof and, in consequence, not only are the courts available for play within ten or fifteen minutes after a rain but the surface is thoroughly protected against washing or disintegration such as are frequently caused by heavy downpours on sand, clay or earth courts. A maximum smoothness is obtainable in the asphalt playing surface and this smoothness is retained throughout the play on account of the fact that the powerful adhesive character of the asphalt prevents any displacement of the surface material. Asphalt is a flexible and resilient material and makes possible long and continuous periods of play without tending to tire out or stiffen the players. The freedom of the surface from sharp, angular fragments or from rigid, gritty texture tends to conserve the soles of the

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players' shoes as well as the tennis balls, since there is practically no abrasion.

While the original cost of an asphalt court is somewhat greater than a sand clay or gravel court, the initial cost is retrieved in a very short time because a properly constructed asphalt tennis court requires practically no upkeep.

Methods of Construction

Proper drainage is of primary importance for an asphalt tennis court just as it is in the proper construction of a highway. In sandy or gravelly soil the drainage problem is not serious and the water drains away easily and naturally. Soils in which clay predominates, however, will retain water and unless proper drainage facilities are provided the west subgrade under the surface will not provide sufficient support for the pavement. Where such a soil is encountered drainage is obtained by digging a ditch two or three feet deep along each side of the court and giving to these ditches a slight grade or fall in the direction of the general slope of the ground. In the bottom of these ditches there should be laid a small-sized, open-joint tile after which the trenches should be back-filled with broken stone to within a few inches of the surface. This drainage system will collect the ground water and lead it away from the subgrade. Drainage of surface water from the court itself will be obtained by giving the finished surface a slight slope of one inch for each ten feet of distance.

In the construction of the tennis court the subgrade should be leveled and finished to an elevation such that when the playing surface is applied the latter will be flush with the shoulders or the surrounding sod, thus permitting an uninterrupted drainage of surface water after the court is completed. Where fills are made they should be thoroughly compacted and allowed to stand until they have been subjected to several heavy rain falls before surfacing is attempted. The paved area of a tennis court should be 60x120. As the outside dimensions of a double playing court are 36x78 feet, such a paved area will afford ample room for play outside of the lines.

After the grading and drainage work has been completed and the subgrade is dry and compacted, a foundation course of steam cinders of from 4 inches to 6 inches in thickness may be applied to good advantage. Ashes from house furnaces are not desirable for this purpose. The cinders should be thoroughly compacted by sprinkling with water and rolling. Too much stress cannot be laid upon the importance of a thoroughly rolling since it constitutes insurance against trouble later from the settlement of the paved area. Equal, if not better, foundations can be obtained through the use of crushed stone, gravel, slag or similar local materials, or from a three inch bed of portland cement concrete. A superior type of foundation may be laid if an asphalt paving plant is accessible by laying a mixture of stone and sand bound together with asphalt according to up-to-date paving specifications and at a thickness of about two and one-half inches.

As suitable a type of surface course as can then be laid upon the foundation is the sheet asphalt pavement similar to that which is commonly laid on great thoroughfares like Fifth Avenue, New York . This consists of a mixture of hot sand, limestone dist and asphalt cement, and should be laid to a thickness of from 1 inch to 1½ inches. This material should be prepared at a mixing plant. Asphalt paving contractors are, of course, quite familiar with this type of construction and complete information can be obtained from them as well as the local engineer in charge of city, street or country highway paving.

Where the base course is of broken stone or cinders, it will be desirable first to lay what is known as a binder course about 1 inch in thickness upon the found-

(Continued on page 399)

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Office Building, 1420-22 Walnut street, Philadelphia. Architect, Ralph B. Bencker, Bellvue Court Building, Philadelphia. Owners, Chancellor Realty Co., care of architect. Brick, limestone, steel, 15 stories, 50x186 feet, elevators, steam heat, electric light, tile and marble work. Plans in progress.

Church, Tenth and Northeast Boulevard, Philadelphia, $175,000. Architect, Ralph B. Bencker, Bellvue Court Building, Philadelphia. Owners, Christian Church, Rev. Carl Agee, Tenth and Northeast Boulevard. Stone, 1 story. Details undecided. Plans in progress.

Grade School, Lansdale, Pa. Architect, W. K. Phillips, 213 South Fifth street, Philadelphia. Owners, Board of Education, Lansdale, Pa. Will contain auditorium-gym, 2 stories, 14 class rooms. Preliminary plans in progress.

Manse, Chelten and Limekiln Pike, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Covenant Presbyterian Church, H. W. Hathaway, Twentieth and Chelten avenue. Stone, brick, stucco, 2½ stories, 28x52 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Crefeld street, Chestnut Hill, Pa. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, P. Grant, 2nd, 505 Chestnut street, Philadelphia. Site being cleared. Sketches being drawn.

Synagogue, Southwest Corner Fifty-second and Columbia avenue, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Haarizedik Congregation, care of architect. Brick, steel, 1 story and balcony, 36x120 feet, composition roof, maple or oak flors, vapor heat, electric light, tile and marble work. Plans in progress.

Apartment House (96 apartments), Northwest Corner Tenth and Clinton streets, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, steel, limestone, 12 stories, 40x120 feet, steam heat, electric light, tile and marble work, elevators. Plans in progress.

Residences (103), Elmwood, Seventy-fourth, Seventy-fifth, intermediate streets, Philadelphia. Architect, W. B. Lowenthal, 1208 Chestnut street, Philadelphia. Owner, J. H. Dart, Jr., 913 Lincoln Building, Philadelphia. Brick, 2 stories, (27) 16x40 feet, 16 basement stores, (48) 16x37 feet, (28) air light, 16x32 feet, (1) basement store, tile, slag and tin roof, hardwood floors, enclosen porches, hot water heat, electric light, metal lath, tile work, hollow metal skylights, Oilamatic gas heater. Basement garages in all private dwellings. Plans in progress.

Apartment House (add.), Northeast Corner Nineteenth and Walnut streets, Philadelphia, $3,000,000. Architect, Ralph B. Bencker, Bellvue Court Building, Philadelphia. Owners, The Wellington, F. H. Frazier, Nineteenth and Walnut streets, Philadelphia. Brick, limestone, steel, 26 stories, 120x220 feet, slag roof, concrete and hardwood floors, elevators, steam heat, electric light metal lath, tile and marble work. Plans about commpleted. Architect ready for bids in two weeks.

Garage, Northeast Corner Frankford and Elkhart streets, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, Babis & Bender, Schubert Building, Philadelphia. Brick, 2 stories, 59½x153 feet, slag roof, cement floors, elevators, plate glass, metal bulks, steam heat, electric light. Owners taking sub-bids.

Warehouse, 20 North Third street, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, Harry Uditsky, care of C. Uditsky & Son, on premises. Steel, concrete, cast stone, 5 stories, 41x125 feet, asphalt roof, concrete floors, elevators, steam heat, electric light, rolling steel sash, iron stairs, fire escapes. Architect taking sub-bids.

Office, Front below Wyoming avenue, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Daniel Zepp, 3154 North Ninth street, Philadelphia. Brick, 1 story, 14x36 feet, slag roof, pine floors, hot water heat, electric light. Plans completed. Ready for bids.

Store and Residence, Southwest Corner Bleigh and Palmetto streets, Philadelphia. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, Mary E. Peoples, Wayne Apartments, Philadelphia. Concrete block and stucco, 2 and 3 stories, 18x50 feet each, slag roof, pine and hardwood floors, hot water heat, metal lath, tile work, metal ceilings, iron stairs. Plans in progress. Architect will take bids next week.

Church (alts. and add.), Thirty-third and Chestnut streets, Philadelphia. Architects, Bureau of Architecture, Methodist Episcopal Church, Seventeenth and Arch streets, Philadelphia. Owners, Asbury Methodist Episcopal Church, Rev. W. H. Aspril, on premises. Brick, cut stone, steel, 2 stories and basement, 20x28 feet, slag roof (painting and glazing reserved), pine and linoleum floors, plumbing, steam heat, electric light, tile work, metal lath, ornamental iron work. Architects taking bids due June 26th.

Garage, 924 Spring street, Philadelphia. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owner, Joseph A. Brady, 136 South Fourth street, Philadelphia. Reinforced concrete, steel, brick, 4 stories, 100x100 feet, slag roof, concrete floors, steam heat, electric light. Architect taking bids due June 30th.

Apartment House, 5427 Wayne avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, J. Presper Eckert, Commercial Trust Building, Philadelphia. Brick, concrete, limestone, steel, 3 stories and basement, 272x84 feet (tile, heating and marble work reserved), Barrett specification roof, cement, oak and pine and maple floors, plumbing, architectural terra cotta, electric light, metal lath, hollow metal sash, kalamein doors, bond, ornamental iron work, area gratings. Architect taking bids due June 25th.

Restaurant and Store, 3120 Market street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Twentieth Century Realty Co., on premises. Terra cotta, granite and brick, 1 or 2 stories, 50x125 feet, slag roof. Architects taking bids due June 24th.

Church and Sunday School, Northeast Corner Broad and Grange avenue, Philadelphia. Architects, Stuckert & Co., 1420 Chestnut street, Philadelphia. Owners, Heidelberg Reformed Church, on premises. Stone, cut stone, steel, 1 story, 2 stories and basement, 110x75 feet, built-up asphalt, asbestos shingle and slate roof, cement and pine floors, plumbing, shoring, ornamental iron work, demolition, cast stone, steel toilet partitions, granite, limestone, area gratings, steam heat, electric light, metal lath, tile work, rolled steel sash, bond, ornamental iron work. Architects taking bids due June 28th.

Club House (alts.), 220 South Broad street, Philadelphia. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Art Club of Philadelphia, 220 South Broad street, Philadelphia. Terrazzo work, tile work, marble work, plumbing, metal lath, plastering, painting and glazing, hollow tile, carpentry and mill work, slag roof, steel work, hardware, celotex (plumbing, heating and electric, elevators separate bids). Architects taking bids due June 29th.

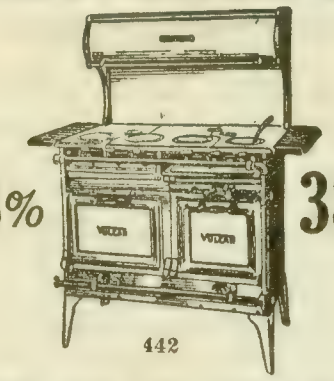
Boiler Room, 8815 Germantown avenue, Philadelphia. Architect, Furness Evans, 313 South Fifteenth street, Philadelphia. Owners, Chestnut Hill Hospital, on premises. Brick, steel, 1 story. Architect taking bids due June 28th.

Contract No. 144, Broad Street Subway, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Demolition of buildings on site, Mt. Vernon, Cumberland and Louden streets, for stations. Deposit, $10.00, refunded. Certified check 5 per cent. Owners taking bids due June 25th, 11 A. M. (Standard Time).

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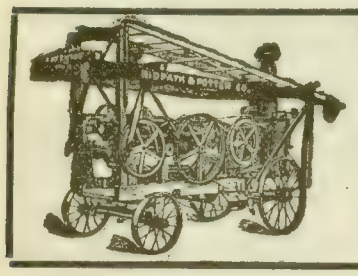

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Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, City Hall. Owners taking bids due July 1st, 11 A. M. (Standard Time). Contract No. 802, piping and equipment for Belmont mechanical filters. Contract No. 819, furnish and deliver two steel coal cars for Lardner's Point Pumping Station. Contract No. 827, furnish and deliver filter sand, Torresdale Prefilters. Repairs to Queen Lane Filters, furnish and lay 6-inch, 8-inch, 12-inch, furnish and lay small pipe lines. Certified check 5 per cent.

Contract No. 30, painting, Delaware River Bridge. Owners, Delaware River Bridge Joint Commission, Widener Building, Philadelphia. Low bidder, Mundy Paving Const. Co., 226 South Warnock street, $66,351.

Apartment House, 4009-11 Locust street, Philadelphia, $60,000. Architect, Hugh A. Hamilton, Greene and Chelten avenues, Philadelphia. Owners, Lincoln Apartment Corporation, Fox Building, Philadelphia. Brick, 3 stories, 50x28 feet 5 inches, slag roof, hardwood, pine and cement floors, oil burner, electric light, tile work. Permit granted.

Residences (2), South side Decatur street, West of Erdrick street, $4,500 each. Owner, J. G. Stevens, 7014 Hegerman street, Philadelphia. Brick, 2 stories, 16x16 feet, 18x26 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (10), East side Howard street, North of Grange street, $3,200 each. Owner, L. Cohen, 1704 Conlyn street, Philadelphia. Brick, 2 stories, 15x27 feet, 12x10 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Residences (32), Fifty-ninth and Greenway avenue, Philadelphia, $164,000. Architect, private plans. Owner, Joseph K. Seidel, 5213 Chestnut street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Garage (add.), 231-33 West Coulter street, Philadelphia, $13,000. Architect, private plans. Owner, J. D. Mullen, 156 West Queen Lane, Philadelphia. Brick, 2 stories, 35 x irregular, slag roof, cement floors, electric light. Permit granted.

Residences (2), 1210-12 St. Vincent street, Philadelphia, $5,000 each. Architect, private plans. Owner, E. Fred Kemmer, 7319 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, 631 East Summit street, Philadelphia. Architect, private plans. Qwner, Eugene P. McHugh, 7234 Bryan street, Philadelphia. Frame, 2 stories, 20x26 feet, hot water heat, electric light. Permit granted.

Car Barn (alts.), Southwest Corner Taney and Girard avenue, $50,000. Architect, private plans. Owners, Philadelphia Rapid Transit Company, 820 Dauphin street, Philadelphia. General alterations. Permit granted.

Residences (7), North side Cherokee street, West of Mt. Pleasant avenue, $5,000 each. Architect, private plans. Owners, Anastasi Brothers, 400 West Allen's lane, Philadelphia. Brick, 2 stories, 16x28 feet, 13x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence and Store (alts.), Southeast Corner Eleventh and McKean streets, $2,400. Architect, private plans. Owner, James Miraldi, 726 Morris street, Philadelphia. General alterations. Permit granted.

Garages (10), North side Vernon road or 224 East Boyer street, $45,000. Architect, R. R. Neely, City Center Building, Philadelphia. Owner, Samuel Levin, City Center Building, Philadelphia. Brick, 1 story, various dimensions, slag roof, cement floors, hot water heat, electric light. Permit granted.

Residence, 4026 Dexter street, Wissahickon, Philadelphia, $5,000. Architect, private plans. Owner, John Stanczak, on premises. Brick, 2 stories, 18x40 feet, slag roof, pine floors, hot air heat, electric light. Permit granted.

Garage, East side Sixth street, North of Lindley avenue, Philadelphia, $4,500. Architect, private plans. Owners, J. Fleisher & Sons, 739 West Roosevelt Boulevard, Philadelphia. Brick and concrete, 1 story, 20x156 feet, slag roof, concrete floors, electric light. Permit granted.

Warehouse, 1432-36 North Sixth street, Philadelphia, $5,000. Architect, private plans. Owner, Charles Nichel, 1432-36 North Sixth street, Philadelphia. Brick, 1 story, 51x171 feet, slag roof, electric lighting. Permit granted.

Office, 3044 North Seventeenth street, Philadelphia, $2,000. Architect, private plans. Owners, Kerr-Huefth Coal Co., 2900 North Thirteenth street, Philadelphia. Brick, 1 story, 45x16 feet, slag roof. Permit granted.

Residences (2), South Pratt Street, west of Ritland street, Philadelphia, $12,000. Architect, private plans. Owner, Jas. J. Clearkin, 850 East Ontario Street, Philadelphia. Brick, 2 stories, 18x49 feet, carpentry and millwork, electric light. Permit granted.

Residence, S. Dalton St., east of Burholme street, Phialdelphia, $4,500. Owner, Reuben C. Douglass, 8037 Oxford Avenue, Philadelphia. Frame, 2 stories, 28x35 feet. Owner will build. Permit granted.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

School Building, Crefeld street, Chestnut Avenue, Philadelphia. Architect, Day and Zimmerman, 1600 Walnut street, Philadelphia. Owner, Shady Hill Country Day School, Chestnut Avenue, Philadelphia. Stone, 2 stories addition, 84x51 feet, (heating, electric and plumbing, reserved), slag roof, pine floors, metal lath, tile work, fire doors, cast stone, bond, ornamental iron work, metal toilet partitions. Contract awarded W. C. Wright and Son, 22 Harvey street, Philadelphia.

Nurses Home (add.), Cypress street between Sansom and Walnut streets, Philadelphia. Architect, Stone and Webster, Real Estate Trust Building, Philadelphia. Owner, Jefferson Hospital, 10th and Sansom streets, Philadelphia. Reinforced concrete, brick, 2 stories addition, 99x32 feet, slag roof, maple and cement floors, painting and glazing, metal lath, tile, marble and terrazzo work, hollow metal sash and doors, shoring bond, ornamental iron work, demolition. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia.

Garage, 1860-20 E. Margaret Street, $3,140. Architect, private plans. Owner, A. G. Wooleiton, (et. al.), Clifton Heights, Pa. Brick, 1 story, 18x95 feet, cement work. Contract awarded W. F. Chapman, 1805 W. Venango street, Philadelphia.

Elevator Shaft (Mill Building), Coral and Hagert streets, $2,000. Owner, Arrott Mills Company, Coral and Hagert streets, Philadelphia. Contract awarded Geo. H. Thirsk, 4305 Horrocks street, Philadelphia.

Shop, 2325-31 Fairmount Avenue, Philadelphia, $30,000. Architect, private plans. Owner, Arthur Mikleberg, 2248 South Ninth St., Philadelphia. Brick, 2 stories, 64x40 feet, carpentry and millwork. Contract awarded Israel Farbstein, 917 Ritner Street, Philadelphia.

Bank Building, Northeast Corner Broad and Airdrie streets, Philadelphia. Architect, William H. Lee, Schaff Building, Philadelphia. Owners, National Bank of North Philadelphia, 3701 North Broad street, Philadelphia. Brick, architectural terra cotta, steel, reinforced concrete, 1 story and basement, 55x49 feet, slag roof, cement floors, hollow tile, elevators, metal weather strip, membrane waterproofing, ornamental iron work, iron stairs, bond, hollow metal doors, rolled steel sash, marble and terrazzo work, metal lath, electric light, steam heat, bronze covered doors, cork flooring, pneumatic tubes, linoleum floors, marbleized [illegible] doors, models, morene wall finish, ornamental bronze (allowance), revolving doors, safety bolts, steel pile foundations, metal toilet partitions, ventilation, wood cabinet work, area gratings, ornamental plaster, caulking, acoustical treatment, painting and glazing, demolition, plumbing, brass pipe, wrought iron pipe. Contract awarded to Wark Co., 1600 Walnut street, Philadelphia.

Restaurant and Office Building, 219 South Broad street, Philadelphia, $330,000. Architect, Ralph Bencker, Bellvue Court Building, Philadelphia. Owners, Horn & Hardart Baking Co., 214 South Tenth street, Philadelphia. Brick, limestone, granite, steel, 3 stories and basement, sub-basement, 33x130 feet, slag roof, cement and pine floors, elevators, roof ventilators, integral waterproofing, dampproofing, architectural terra cotta, ornamental iron work, iron stairs, bond, tin-clad and kalamein doors, rolled steel skylights, hollow metal sash, tile and marble work, metal lath, demolition, piling, caulking, metal toilet partitions, ornamental plaster, painting and glazing, bronze work. Contract awarded Ward & Co., 1600 Walnut street, Philadelphia.

Store and Office (alts. and add.), Southeast Corner Germantown and Somerset street, Philadelphia, $15,000. Architect, William H. Wooters, 816 West Allegheny avenue, Philadelphia. Owner, A. M. Adams, 2254 North Front street, Philadelphia. Brick, steel, 2 stories, 16x20 feet, slag and canvas roof, hardwood floors, hot water heat, electric light, metal lath, tile and marble work, metal ceilings, metal bulks. Contract awarded Paul Brosz, 2511 West Huntingdon street, Philadelphia.

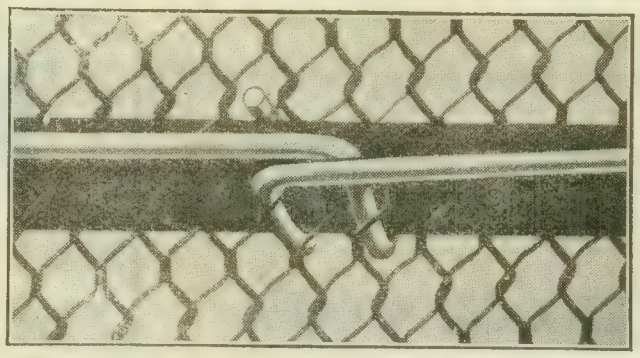
Apartment House, East side Sixty-third, Columbia and Lebanon avenues, Philadelphia. Architects, T. B. Lippincott and C. S. Schaef, 11 South Sixteenth street, Philadelphia. Owners, Warren Apartment Corporation, care of architect. Tapestry brick, reinforced concrete, fireproof construction, cast stone, 10 stories and basement, 48x140 feet, 120 feet, irregular, slag and tile roof, hardwood floors, rubber tile, linoleum floors, electric elevators, vapor heat, oil burning, electric light, metal lath, tile work, wood sash, copper skylights, tinclad and kalamein doors, painting walls and ceilings throughout, copper bulks, plate glass, 4 basement stores, ornamental plaster, simplex partitions, ornamental iron work, house phones, incinerators, individual electric refrigerators. Contract awarded R. P. Whitty

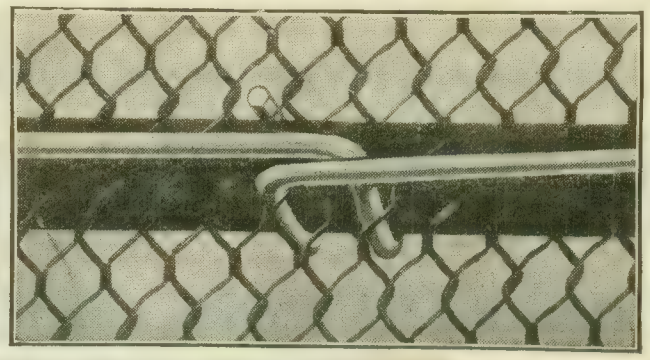
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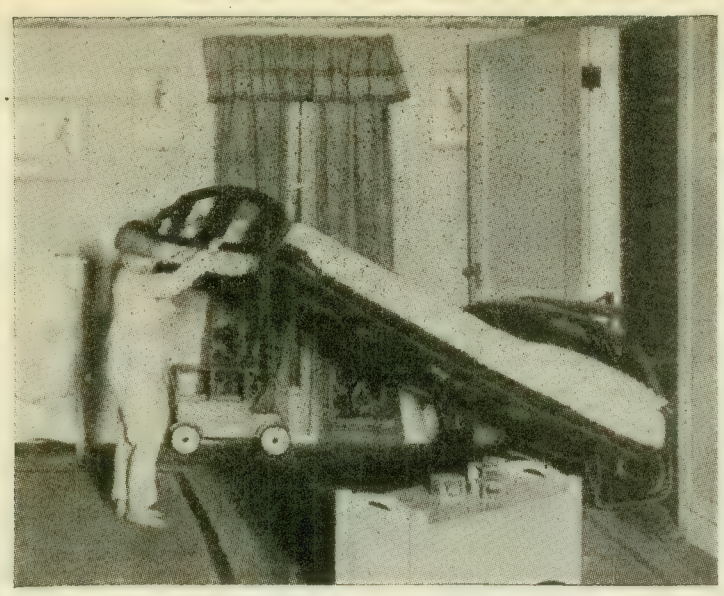
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Building (interior alts.), 3621 Germantown avenue, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owner, C. R. Hartranft, on premises. Steam heat, electric light, rubber floors, carpentry and mill work, plastering, painting and glazing, hardware, tile work, metal lath, iron work. Contract awarded H. P. Schneider, 3713 Old York road, Philadelphia.

School and Church (alts.), Cottman and Torresdale avenue, Philadelphia, $9,000. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, St. Hubert's Roman Catholic Church, Rev. J. Ludwig, on premises. Bond, carpentry, mill work, plastering, painting, glazing, hardware, metal ceilings, sheet metal work, hollow metal doors, plastering, cement work (heating, electric work, plumbing and gas ranges reserved). Contract awarded to Knox-Landers Co., 1132 Vine street, Philadelphia.

Logan Hall Passageway (alts.), Thirty-fourth and Spruce streets, Philadelphia. Architect, private plans. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Demolition, concrete work, reinforced concrete, cement work, brick work, plastering, painting and glazing, plastering, carpentry and mill work, iron work, mansard roof, rolled steel skylights, hardware, bond. Contract awarded Turner Const. Co., 1700 Walnut street, Philadelphia.

Jefferson Theatre (alts.), Twenty-ninth, Dauphin and Susquehanna avenue. Architect, William H. Lee, 1505 Race street, Philadelphia. Owner, Louis Kapner, 213 S. Broad St., Phila. Brick, hollow tile, ornamental plastering, composition floors, concrete work, electric work, metal toilet partitions, carpentry, mill work, painting, plastering, plumbing, sheet metal, marble, terrazzo floors, metal lath, miscellaneous iron work. Contract awarded to H. P. Schneider, 3713 Old York road, Philadelphia.

Store and Apartment, 754 South Fourth street, Philadelphia. Architect, private plans. Owner, M. Stapler, on premises. Brick, steel, cut stone, limestone, 3 stories and basement, 20x100 feet, slag roof, pine, composition and oak floors, steam mheat, electric light, metal lath, rolled skylight, ornamental iron work, sprinkler oil burner, linoleum floors. Contract awarded L. Rosengarten, Otis Building, Philadelphia.

Work Shop (add.), Allison street, South of Arch street, Philadelphia. Architect, private plans. Owner, Samuel Yellin, on premises. BBrick, steel, 2 stories and basement, 96x49 feet, slag roof, cement and pine floors, rolled steel sash. Contract awarded Haverstick & Borthwick, Schaff Building, Philadelphia.

Apartment House, North side Limekiln pike, West of Sixteenth street, $15,000. Architect, Charles S. Parker, 5018 Schuyler street, Philadelphia. Owner, Virginia Greenfield, Noble, Pa. Brick, 3 stories, 65x25 feet, hardwood and pine floors, steam heat, electric light, tile work. Contract awarded to Walter Greenfield, Noble, Pa.

Removal of Freight Elevator, Eighth and Market streets, Philadelphia, $6,300. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Lit Brothers, on premises. Brick work, carpentry, mill work, plastering. Contract awarded to William Linker Co., 735 Cherry street, Philadelphia.

Frankford Theatre (alts.), Stores and New Apartments (4), 4711 Frankford avenue, Philadelphia. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owners, Frankford Theatre, on premises. Contract awarded P. Haibach Cont. Co., 1261 North Twenty-sixth street, Philadelphia.

Miscellaneous Work, Belmont Filter Plant, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Substructure of Belmont Mechanical Filters. Contract awarded Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Service Station (add. and alts.), 103 North Twenty-second street, $15,000. Architect, private plans. Owner, Roland Miller, 221 North Twenty-second street, Philadelphia. Brick, 2 stories add., 32x90 feet, general alterations. Contract awarded to A. T. Draper, 631 Appletree street, Philadelphia.

Storage Shed, Northeast Corner Chadwick and Mifflin streets, $5,000. Architect, private plans. Owner, Frank Burnett, 103 Chestnut street, Philadelphia. Brick, 1 story, 52x59 feet. Contract awarded to Robert H. Helm, 1700 East Moyamensing avenue.

Store (alts.), East side Torresdale avenue, North of Longshore street. Architect, private plans. Owners, Tacony Trust Co., Tacony Philadelphia. General alterations. Contract awarded to J. G. Stevenson, 7014 Hegerman street, Philadelphia.

Dye House, East side Fairhill street, North of Cumberland street, $10,000. Architect, private plans. Owners, Marshall Field Mills Corporation, Fairhill and Cumberland streets. Brick, 1 story, 50x60 feet, slag roof, electric light. Contract awarded to William Steele & Sons Co., 219 North Broad street.

Residence, North side High street, West of Ross street, $5,000. Architect, private plans. Owner, Leander Angelone, 336 East Price street, Philadelphia. Brick, 2 stories, 15x29 feet, 10x10 feet, slag roof, hot water heat, electric light. Contract awarded to Charles Sinn, 5578 American street, Philadelphia.

Exhibition Buildings, Sesqui Grounds, Philadelphia, $50,000. Owners, New York State, Albany, New York. Frame and stucco, (1) 1 story, 28x32 feet, (1) 2 stories, 80x40 feet. Contract awarded to Jefferson Const. Co., 2701 South Thirteenth street, Philadelphia.

Manufacturing Building (add.), Northwest Corner Fifty-seventh and Market streets, $8,000. Architect, private plans. Owners, Coleby Tailoring Co., on premises. Brick, 3 stories add., 38 feet 6 inches x 29 feet. Contract awarded to W. G. Ash, 5442 Westminster avenue, Philadelphia.

Residence, South side Audrey street, East of Frankford avenue, $5,400. Architect, private plans. Owner, John J. Nathans, Jr., 1368 West Yycoming avenue, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, hardwood and pine floors. Contract awarded to William J. Niblick, 3029 Janney street, Philadelphia.

Residence (alts.), Northwest Corner Susquehanna avenue and Bouvier street. Architect, private plans. Owner, Isadore Meltzer, 1722 West Susquehanna avenue, Philadelphia. General alterations. Contract awarded to A. Barsky, 528 Spruce street, Philadelphia.

Residences (10), 5715-33 North Twenty-first street, Philadelphia, $35,000. Architect, private plans. Owner, A. J. Sabia, 940 Lycoming avenue, Philadelphia. Brick, 2 stories, 15x30 feet, slag roof, pine floors, hot water heat, electrical light. Contract awarded to Braun Brothers, 113 East Moreland street, Philadelphia.

Exhibition Building, Sesqui Grounds, Philadelphia, $19,800. Owner, M. Djamai, 2868 South Fifteenth street, Philadelphia. Frame, 1 story, 125x150 feet. Contract awarded to William S. Gore, Sixty-second and Media streets, Philadelphia.

Residence and Store (add. and alts.), Southwest Corner Sixty-seventh and Ogontz avenue, $4,000. Architect, private plans. Owner, Herbert E. Gimbel, 6638 Ogontz avenue, Phila-

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delphia. Brick, 1 story add., 15x21 feet, general alterations. Contract awarded to Max Holzman, 1492 Princess street, Philadelphia.

Manufacturing Building (alts.), 235 North Third street, $3,000. Architect, private plans. Owners, H. O. Wilbur & Sons, on premises. General alterations. Contract awarded to H. H. Conway, 5800 Walnut street, Philadelphia.

Store (add.), 3606 Spring Garden street, Philadelphia, $2,500. Architect, private plans. Owner, J. West, 137 North Second street, Philadelphia. Brick, 1 story add., 16x24 feet, slag roof, pine floors. Contract awarded to Clayton Lofland, 231 North Water street, Philadelphia.

Store and Residence (alts. and add.), 814 Poplar street, $2,000. Architect, private plans. Owner, S. Gulman, 814 Poplar street, Philadelphia. General alterations. Contract awarded to B. Arrow, 992 North Seventh street, Philadelphia.

Residence and Store (alts.), 836-38 North Tenth street, $4,300. Architect, private plans. Owner, Bernard Sleuzer, Tenth and Parrish streets, Philadelphia. General alterations. Contract awarded to D. Goldman, 1617 South Orkney street, Philadelphia.

Store (add. and alts.), 2301 North Thirteenth street, Philadelphia, $3,500. Architect, private plans. Owner, M. Lecks, 1213 West Dauphin street, Philadelphia. Brick, 2 stories add., 16x10 feet, general alterations. Contract awarded to G. M. Formosa, 5608 North Fifth street, Philadelphia.

Music School (alts.), 1720 Locust street, Philadelphia, $2,000. Owners, Curtis Music Institute, on premises. General alterations. Contract awarded to H. H. Burrell, 206 South Quince street, Philadelphia.

Pennsylvania Construction News

School (add.), Bart Township, Lancaster County, Pa. Architect, H. Y. Shaub, 20½ North Queen Street, Lancaster, Pa. Owners, Bart Township School Board, care of Architect. Brick, 1 story, 4 rooms, composition roof, pine floors, electric light. Plans in progress.

Houstonville School (add.), South Coatesville, Pa. Architect, H. Y. Shaub, 20½ N. Queen street, Lancaster, Pa. Owners, South Coatesville School Board, care of architect. Brick, steel, 3 stories, 60x80 feet, 50x60 feet, slate roof, maple floors, safety treads, roof ventilators, iron stairs, rolled steel sash, metal lath, (heating, plumbing and electric, separate). Architect taking bids due June 24th.

Store and Apartment Building, Parsons, Pa. Architects, Mack and Sahm, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Max Brill, 200 George Ave., Parsons Pa. Brick, and frame, 2 stories, 26x100 feet. Architect taking bids.

Residences (8), Bryn Mawr, Pa. Architect, Seeburger and Rabenold, 1524 Chestnut St., Philadelphia. Owner, Charles F. Rabenold, 1524 Chestnut Street, Philadelphia. Stone, 2½ stories. Preliminary plans being prepared for 1 house. Work contemplated.

Schools (2), Strafford and Paoli, Pa. Architect, Ritter and Shay, Packard Building, Philadelphia. Owner, Tredyffin Township School Board, A. W. Supplee, Paoli, Pa. Brick, 2 stories and basement. Architect ready for bids.

Department Store and Apartment, Marcus Hook, Pa. Engineer, D. C. Finston, Pennsylvania Building, Philadelphia. Owner, name withheld. Brick, steel, 2 stories, 40x80 feet, slag roof, pine floors, oil burner, electric light. Plans in progress. Will be ready for bids end of June.

Apartment Building (alts. and add.), Windber, Somerset County, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Wilmore Coal Co., Windber, Pa. General alterations and additions. Preliminary plans in progress.

Church and Sunday School, Fourth and Maclay streets, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, St. John's Reformed Church, care of architect. Brick, steel, stone, 3 stories, 26x95 feet, composition roof, maple floors, steam heat, electric light, rolled steel sash. Plans in progress.

Store and Office, Second street, Harrisburg, Pa. Architect, private plans. Owners, Cotterel Co., 201 North Second street, Harrisburg, Pa. Fireproof, 2 and 3 stories, 22x120 feet, slag roof, hardwood floors, electric light, fire tower. Plans in progress.

Store Front, Reading, Pa., $5,000. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owner, care of architect. Brick, plate glass, copper front, terra cotta. Plans in progress.

Church, Moore, Pa., $100,000. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Olivet Presbyterian Church, A. T. Richards, care of H. K. Mulford Co., Broad and Wallace streets, Philadelphia. Stone, 1 story and basement. Plans in progress.

School (add.), Topton, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owners, Topton Borough School Board, Mr. Rohrebach, secretary, Topton, Pa. Brick, steel, 2 stories, 34x72 feet, 36x34 feet, Barrett roof, pine floors, roof ventilators (heating, plumbing and electric reserved). Architect about ready for bids.

School (add.), Marcus Hook, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, School District of Lower Chichester Township, Delaware County, Pa. Reinforced concrete, brick, cut stone, 2 stories and basement, 79x25 feet, bond, composition roof, pine and cement floors, hollow tile, painting and glazing, dampmproofing, metal lath, ornamental iron work. Raymond C. Martin, secretary, Marcus Hook Post Office, taking bids due June 30th, 2 P. M.

Bank, Saltsburg, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, First National Bank of Saltsburg, H. F. Carson, president, Saltsburg, Pa. Limestone, marble, 1 story, 40x60 feet, tile and marble, bronze work, vault, ornamental iron. Architects taking bids due June 28th.

Church (alts. and add.), 1020 North Eighth street, Reading, Pa. Architect, G. Cleveland Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Joseph's Roman Catholic Church, Rev. Thomas Harron, Reading. Stone, architectural terra cotta, steel, 1 story and basement, 112x40 feet, clay tile built-up roof, pine and cement floors, painting and glazing, waterproofing, metal lath, tile work, bond, ornamental iron work, demolition, cork floors. Architect taking bids due June 26th.

Theatre (alts.), Peckville, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owner, J. Favini, Jessup, Pa. General alterations. Owner taking bids.

Residence, Merion, Pa. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, name withheld. Brick, frame, 3 stories, 32x49 feet, wing 12 feet 6 inches x 29 feet, porch 12x32 feet, slate roof, hardwood floors, wire lath, tile work (vapor heat, electric light, plumbing reserved), ornamental iron work. Architect taking bids due July 2nd at noon.

Cottage No. 8, Laurelton, Pa. Architect, George S. Idell, Corn Exchange Building,

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Philadelphia. Owners, Laurelton State Village, Laurelton, Pa. No. 1, general construction, plumbing, heating and electric. No. 2, water main. No. 3, sewer main. No. 4, steam distributing plant in boiler house. Owners taking bids due July 3rd, 10.30 A. M. Certified check 5 per cent. Plans and specifications may be obtained from architect for Items Nos. 1, 2, 3, and from S. A. Jellett Co., 1200 Locust street, for No. 4. Deposit, $10.

Pier Head, Port Richmond, Pa., $276,500. Owners, Philadelphia & Reading Railroad, Twelfth and Market streets, Philadelphia. Addition to pier, 316x48½ feet, tracks and cranes, etc. Owners taking bids.

Church and Rectory (add. and alts.), Minersville, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, Our Lady of Mt. Carmel Church, Rev. J. C. Veitt, Minersville. Brick, steel, concrete, 1 story and basement and 3 stories and basement, 24x46 feet, 20x46 feet, asbestos shingle roof, yellow pine and composition floors, electric light, tile work. Architect taking bids due July 1st.

Church, Bryn Mawr, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Bryn Mawr Presbyterian Church, Bryn Mawr, Pa. Stone, cut stone, limestone, brick, steel, 1 story, balcony and basement, ground floor, 72x112 feet, variegated slate roof, linoleum, cement, oak floors, hollow tile, plumbing, steam heat, electric light, metal lath, bond, ornamental iron work, waterproofing, artificial stone, flagstone, oil burner, akoustolith tile work, metal casement, leaded glass, safety treads, area gratings, acoustican system. Architects taking bids due June 25th.

Church and Rectory, Ford and Union streets, Bridgeport, Pa. Architects, Hoffman-Henon Co., Finance Building, Philadelphia. Owners, Our Lady of Mt. Carmel Italian Roman Catholic Church, Bridgeport, Pa. Stone, slate roof, hot water heat, electric light. Architect taking new bids.

Building (add.), Norristown, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street; associate, Harry Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owners, Young Men's Christian Association, Norristown, Pa. Brick, cut stone, granite, 4 stories and basement, 70x31 feet, Barrett specification roof, cement floors, hollow tile, shoring, waterproofing, architectural terra cotta, metal lath, tile, marble and terrazzo work, hollow metal sash, rolled steel skylights, hollow metal doors, bond, floor hardener, iron stairs, ornamental iron work, demolition, cast stone, alberne stone. Architects taking bids due July 2nd at noon.

Sewer Work, Yeadon, Pa. Architects, Damon & Foster, 6932 Market street, Philadelphia. Owners, Borough of Sharon Hill, H. Anshutz, Fire House, Sharon Hill. Terra cotta sewer. Certified check, $100. Owners taking bids due June 28th, 8 P. M. (Daylight Saving Time).

Paving, Yeadon, Pa. Architects, Damon & Foster, 6932 Market street, Philadelphia. Owners, Borough of Sharon Hill, T. H. Dann, Yeadon(Borough Hall), Pa. Owners taking bids due June 24th, 8 P. M. (Daylight Saving Time). Certified check, $100.

School Completion, Greater Providence road, Wallingford, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School Board of Nether Providence, J. R. Hoover, secretary. Owners taking bids due June 24th.

Pennsylvania Contracts Awarded

Residence and Garage, Ithan Ave., Rosemont, Pa. Architect, J. Bedford Wooley, 1935 Chestnut street, Philadelphia. Owner, L. J. Santamarie, Rosemont, Pa. Stone, steel, brick, 2½ stories and casement, 94x36 feet, slate (variegated) roof, oak, pine and cement floors, metal lath, tile work, ornamental iron work, bond, area grills. Contract awarded R. J. Carlson, Schaff Building, Philadelphia.

Office Building, Penhurst Farms, Narberth, Pa. Architect, Charles L. Hillman & Son, 400 Chestnut Street, Philadelphia. Owner, Percival Roberts, Commercial Trust Building, Philadelphia. Cinder block, brick, cut stone, steel, 1 story and basement, 34x30 feet, asbestos built up roof, cement and lineoleum floors, hollow tile, safety treads, painting and glazing, plumbing, steam heat, electric light, metal lath, tile and marble work, ornamental iron work, bluestone, limestone, metal partitions, brass pipe, terra cotta coping. Contract awarded Stokes Bros., 6723 Musgrave Street, Philadelphia.

Hospital (add.), Wilkes-Barre, Pa. Architect, T. A. Foster, Coal Exchange Building, Wilkes Barre, Pa. Owners, City of Wilkes Barre, E. E. Mathews, Supt., Wilkes Barre. Fireproof, 4 stories, 42x85 feet, **slag roof,** terrazzo floors, hollow tile, roof ventilators, water and damproofing, iron stairs, fire doors, tile and marble, metal lath, heating extension, electric work. Contract awarded to Curtis and Co., 1 Hickory street, Wilkes-Barre, Pa.

Residence and Garage, Merion Golf Manor, Ardmore, Pa. Architect, Seeburger and Rabenold, 1524 Chestnut street, Philadelphia. Owner, Louis A. Davis, Esq. (Secretary), Land Title and Trust Company, Broad and Chestnut street, Philadelphia. Stone, brick, limestone, 2½ stories and basement, 72x32 feet, shingle roof, oak and pine floors, (heating, electric and plumbing, reserved), tile work, bond, ornamental iron work, flagstone. Contract awarded A. Zellfelder, 1324 Walnut street, Philadelphia, but not yet signed.

Glenside School, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Board of Education, Oscar Heim, secretary, Eighth and Washington streets, Reading, Pa. Brick, steel, cast stone, 2 stories and basement, 96x60 feet, wing 46x89 feet (plumbing, heating, electric separate), slag roof, cement, composition and maple floors, hollow tile, roof ventilators, painting and glazing, dampproofing, metal lath, tile work, rolled steel sash, fire, kalamein and hollow metal doors, bond, floor hardener, iron stairs, ornamental iron, monolithic floors, mastic treads, limestone, steel casement sash, steel partitions. Contract awarded to Tamaqua Const. Co., Tamaqua, Pa., $121,860. Plumbing to Corbitt Brothers, 3rd and Oley streets, Reading, $14,800. Heating to Corbitt Brothers, Third and Oley streets, Reading, $24,500. Electric to Weidner & Nuss, 150 North Ninth street, Reading, $5,099.

Lodge Building, Second avenue and Fayette street, Conshohocken, Pa. Architect, Charles J. Mitchell, 15 South Twenty-first street, Philadelphia. Owners, Knights of Columbus, Conshohocken Council, Conshohocken, Pa. Brick, cut stone, reinforced concrete, steel, 2 stories and basement, 50x120 feet (heating, plumbing, electric reserved), metal lath, tile work, slag roof, cement and maple floors, pine floors, hollow tile, waterproofing and dampproofing, rolled steel sash, tile work, ornamental iron work, limestone. Contract awarded T. P. Coyne, Conshohocken, Pa.

Church, Hope and Charles streets, Coatesville, Pa. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Joseph's Roman Catholic Church, Coatesville, Pa. Stone, brick, 1 story and basement, 45x85 feet, slate roof. Contract awarded and signed, Frank Seraski, Coatesville, Pa.

School, Auditorium and Chapel, Steelton, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, St. James' Roman Catholic Church, Rev. J. C. Thompson, Steelton, Pa. Brick, steel, 2 stories, 107x35 feet, 50x80 feet, composition and slate roof, maple floors, hollow tile, roof ventilators, metal lath, steel sash, skylights, vapor heat, electric light. Contract awarded to Fred De Grott, 269 Peffer street, Harrisburg, Pa.

Kitchen and Operating Building, Danville, Pa. Architects, Stevens & Lee, 45 Newberry street, Boston, Mass. Owners, George Geisinger Memorial Hospital, Danville, Pa. Reinforced concrete, brick, limestone, steel, 2 stories and basement, 86x96 feet, slag roof, cement floors, roof ventilators, metal lath, tile and marble work, hollow metal sash, iron stairs, ornamental iron work, soapstone. Contract awarded William Shepherd, Wilkes-Barre, Pa.

Residence (alts. and add.), Villa Nova, Pa. Architects, Stewardson & Page, 315 South Fif-

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teenth street, Philadelphia. Owner, Thornton Oakley, on premises. Bond, demolition, stone work, brick work, carpentry and mill work, metal lath, plastering, plumbing, hardware, iron work, steel sash, shingle roof, painting and glazing. Contract awarded H. P. Wolfe & Son, Bryn Mawr, Pa.

Residence (alts. and add.), Washington lane, Jenkintown, Pa. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, John S. Newbold, on premises. Brick, stucco, 2½ stories and basement, 103x24 feet, wing 30x27 feet, shingle roof, oak and pine floors, metal lath, tile work, bond, ornamental iron work, flagstone, limestone. Contract awarded H. H. Burrell, 206 South Quince street, Philadelphia.

Residence, Elkins Park, Pa. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owner, Allen Kirschbaum, Broad and Carpenter streets, Philadelphia. Stone, brick, 2 stories, 22x75 feet. Contract awarded Hesswin Co., 2047 Arch street, Philadelphia.

Residence and Garage, Park Hill, Reading, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owner, A. J. Stief, care of architect. Brick, 2 stories, 32x52 feet, 20x22 feet, slate roof, hardwood and concrete floors, hot water heat, electric light, tile work. Contract awarded to Reider & McLaughlin, Reading, Pa.

School (alts. and add.), Wayne, Pa. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owners, Board of School Directors, Radnor Township, Pa. Contract awarded J. P. Kearney, 6731 Haverford avenue, Philadelphia. Plumbing, heating and electric not awarded.

Residence and Garage (alts.), Villa Nova, Pa., $100,000. Architects, Delano & Aldrich, 126 East Thirty-eighth street, New York City. Owner, Mrs. Henry G. Leach, on premises. Stone, brick, stucco, limestone, 2½ stories and basement, slag and tile roof, oak, pine and cement floors, hollow tile, metal lath, steelead skylights, kalamein doors, membrane waterproofing, dampproofing, demolition, flagstone, shoring, concrete, masonry, brick, structural steel, miscellaneous iron work, area gratings, metal lath, plastering, linotile floors, marble and tile, carpentry and mill work, hardware, painting and glazing, granolithic finish (plumbing, heating, electric work reserved). Contract awarded Gray Brothers, Rosemont, Pa.

Power Plant, Lewistown, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Viscoes Co., Marcus Hook, Pa. Brick, steel, 1 story and basement, 60x90 feet, electric light, cement floors, rolled steel sash. Contract awarded W. D. Steinbach, Lewistown, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Westmoreland County, A-4009, Rostraver Township, 8,203 feet. One course reinforced concrete. $72,321.41. Contract awarded to J. F. Patterson, trading as Donora Const. Co., Donora, Pa.

Bucks County, A-3441, 3670, Bristol Township and Borough, 8,243 feet. One course reinforced concrete. $87,487.47. Contract awarded to R. L. Bonham Co., Inc., Bridgeton, N. J.

Lehigh-Berks Counties, R-226, A-3795-6, R-285, Lynn and Albany Townships. One course reinforced concrete. $249,380.51. Contract awarded to JoJhnson, Drake & Piper, Inc., Minneapolis, Minn.

Jefferson County, R-435-6, A-3386, Bell Township. One course reinforced concrete. $61,849.36. Contract awarded to Joseph Wiesner & Son, St. Mary's, Pa.

Fayette County, R-116, S-4, Georges Township, 20,890 feet. One course reinforced concrete. $185,063.19. Contract awarded to Elder & Merriman, Ebensburg, Pa.

Erie County, R-84, Sec. No. 5, Waterford Borough. One course reinforced concrete. $26,-191.90. Contract awarded to Charles H. Fry, Const. Co., Erie, Pa.

Somerset County, R-50, A-3680, Addison Township. One course reinforced concrete. $160,087.70. Contract awarded to Tri-State Eng. Co., Cumberland, Md.

New Jersey Construction News

School (High), Gloucester, N. J., $271,000. Architect, Edwards and Green, 548 Federal street, Camden, N. J. Owners, Gloucester School Board, C. A. Fowler, Chairman, Gloucester, N. J. Fireproof, 3 stories. Architects selected.

Office Building, Asbury Park, N. J. Engineer and Architect, F. D. Shea, 279 N. Michigan ave., Chicago, Ill. Owner, Utilities Power and Light Company, Asbury Park, N. J. Brick, cut stone, granite, steel, 10 stories and basement, 113x60 feet, composition roof, cement floors, hollow tile, elevators, plumbing, shoring, waterproofing and campproofing, ornamental iron work, iron stairs, bond, hollow metal doors, hollow metal sash, terrazlo work, metal lath, electric light, steam heat, ventilating, bronze work, metal toilet stalls. (Plumbing, heating, electric and ventilating, elevators, toilet accessories, steel stack, sidewalk lift, separate bids). Architect taking bids due June 24th.

Residence and Garage, Ventnor, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, George Burke, care of architect. Brick, hollow tile and stucco, 2 stories and basement, 42x56 feet, hardwood floors, electric light, tile work. Plans in progress.

Hebrew School, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Dr. Heizl, care of architect. Stone. Preliminary plans in progress.

Greenhouse and Warehouse, East Front street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, M. C. Ribsam & Sons Co., Broad and Front streets, Trenton. Brick, steel, frame, 3 stories, 100x75 feet, Barrett roof, pine floors, elevators, roof ventilators, dampproofing, iron stairs, fire and kalamein doors, rolled steel sash, electric work (glass reserved). Architect ready for bids.

Bank, Pennington, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, First National Bank of Pennington, care of architect. Brick, cut stone, steel, 1½ stories, 36x63 feet, built-up roof, marble floors, metal window guards, ornamental plaster, vault, vault doors, bronze, tile and marble, metal lath (heating, plumbing, electric and vault reserved). Architect taking bids.

Stores and Apartment Building, 25 South Kentucky avenue, Atlantic City, N. J. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, Joseph Myers, Connecticut avenue, Atlantic City, N. J. Brick, steel, 3 stories, 35x81 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, Architect will take bids in a few days.

Administration Building, Bridge Approach, Camden, N. J., $100,000. Architect, Paul Cret, Otis Building, Philadelphia. Owners, Delaware River Bridge Joint Commission, Widener Building, Philadelphia. Limestone, granite, brick, steel, 2 stories and basement, 42x103 feet. Plans about completed. Owners will take bids next week.

School, Deep Water, Salem County, N. J. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Lower Penn's Neck Township, N. J. Cement block, stucco, 1 story and basement, 6 rooms, steam heat, electric light, slag roof, pine floors. Owners taking bids due June 29th, 8 P. M.

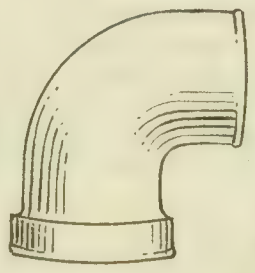
Convention Hall, Atlantic City, N. J. Architects, Lockwood, Greene & Co., Inc., 1 Pershing Square, New York. Owners, Atlantic City Board of Commissioners, Harry T. Headley, Director of Streets and Public Improvements, City Hall, Atlantic City, N. J. Engineer, Alexander H. Nelson, Guarantee Trust Building, Atlantic City. Certified check $20,000 to order of City Treasurer. Bond. Deposit, $50 (refunded). Owners taking bids due July 1st at 3 P. M. (Daylight Saving Time).

Bank and Office Building (add.), Fifth and Market streets, Camden, N. J. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Land Title Guaranty Co., Mr. Holyburton, on premises. Brick, cut stone, steel, 4 stories additional, 100x38 feet, slag roof, cement floors, steam heat, electric

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Residence (alts.), Woodbury, N. J. Architects, H. R. Stackhouse and W. W. Donohue, 1120 Locust street, Philadelphia. Owner, Ralph E. Jackson, Woodbury, N. J. General interior and exterior alterations. Architects taking bids due June 24th.

Sewers, Pensauken Township, N. J. Architects, Remington & Vosbury, 509 Cooper street, Camden, N. J. Owners, Township Committee, R. V. Peabody, Clerk, Camden, N. J. Certified check 5 per cent. of bid. Deposit, $5.00 each set, refunded $3.00. Owners taking bids due June 28th, 8 P. M.

Blowers, various schools, Camden, N. J. Owners, Board of Education, City Hall, Camden, N. J. Certified check or cash, $25.00. Owners taking bids due June 28th, 2 P. M. (Daylight Saving Time).

Residence, 901 North Thirty-fourth street, Camden, N. J., $3,500. Architect, private plans. Owner, F. F. Fry, 301 North Twenty-seventh street, Camden, N. J. Frame, 1½ stories, 24x34 feet, slate surface roof, electric light. Permit issued.

County Asylum (add.), Northfield, N. J. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City. Owners, Atlantic County Board of Freeholders, Broad Street Bank Building, Atlantic City, N. J. Fireproof, 3 stories, 32x109 feet, slate roof, composition floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, ornamental iron (plumbing, electric and heating separate bids). Lowest bidders: A. B. Bowen, 1 Delancey Place, Atlantic City, $112,000; Philip G. Hannum, Georgia avenue and Thorofare, Atlantic City, $122,956.

Bath Room Addition, Home for Feeble Minded Women, Vineland, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Lowest bidders: Thompson-Lockhart Co., 911 North Nineteenth street, Philadelphia, $29,540. Plumbing, J. T. Evans, 158 South Main street, Wilkes-Barre, Pa., $6,326.18. Heating, William L. Bagg, Vineland, N. J., $1,090. Electric, Strang Electric Co., 214 South Seventh street, Philadelphia, $1,374.

Road Work, New Jersey. Owners, State Highway Department, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J.

Middlesex County, Route 1, widening from Metuchen to Rahway. Excavation, penetration macadam shoulders, plain concrete, 3 small span bridge extensions.

Atlantic County, R-14, Section 14, May's Landing-Egg Harbor. Unclassified excavation, double line reinforced concrete pavement, gravel surface. Deposit of $10. Certified check 10 per cent. Owners taking bids due July 7th at 11 A. M. (Eastern Standard Time).

New Jersey Contracts Awarded

School (add.), Brooklawn, N. J., $61,440. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, School Board, Borough of Brooklawn, Gloucester County, N. J. Brick, reinforced concrete, cut stone, steel, 2 stories and basement, 84x60 feet, variegated slate roof, maple and cement floors, hollow tile, metal weather strip, dampproofing, kalamein doors, bond, metal toilet partitions, demolition, cast stone, granite (plumbing, heating and electric work separate bids). Contract awarded to Wills-Bill Co., 1706 Sansom street, Philadelphia. Plumbing to Clifford Duer, Brooklawn, N. J. Heating to John L. Smith, Woodlynne, N. J. Electric to Roland E. McMahon, Woodbury, N. J.

Warehouse, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, The Crane Co., 836 South Michigan avenue, Chicago, Ill. Mill construction, steel, 1 and 2 stories, irregular size, slag roof, cement floors, hollow tile, waterproofing and dampproofing, electric light, metal lath, steel sash, fire doors. Contract awarded to M. B. Markland, 3540 Atlantic avenue, Atlantic City.

Court House, Woodbury, N. J. Architect, Charles R. Peddle, 126 South Fourth street, Philadelphia. Owners, Gloucester County Board of Chosen Freeholders, Gloucester, N. J. Trenton brownstone, 1 story and basement, 32x52 feet (plumbing, heating and electric separate), slag roof, pine and cement floors, bond, ornamental iron work. Contract awarded George W. Shaner Co., Palmyra, N. J., $17,483.

Residences (5), 1237-39-43-45-49 Magnolia avenue, Camden, N. J., $22,500. Architect, private plans. Owner, Philip Kalipman, Camden, N. J. Brick, 2 stories, 15x44 feet, slag roof, hot water heat, electric light, garages (4) in rear, each 1 story, 10x18 feet. Contract awarded to Harry Vansant, 550 Haddon avenue, Collingswood, N. J.

Sales and Service Station (add.), 1400 Haddon avenue, Camden, $10,000. Architect, private plans. Owner, Henry Mianowski, Camden, N. J. Brick, second story add., 40x100 feet, slag roof. Contract awarded to Frank Valeriani, 259 Spruce street, Camden, N. J.

Residences (2), 1644-46 Maryland street, Camden, N. J., $9,500. Architect, private plans. Owner, Andrew Miller, 1162 Everett street, Camden, N. J. Brick, 2 stories, 15 feet 6 inches x 48 feet, slag roof, hot water heat, electric light. Contract awarded to Bruno J. Wilinski, 1213 Mt. Ephraim avenue, Camden, N. J.

Residence, 1116 North Twenty-sixth street, Camden, N. J., $3,300. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, John Lynch, 1148 North Twenty-sixth street, Camden, N. J. Brick, 1 story, 16x42 feet, slate surface roof, hot air heat, electric light. Contract awarded to Wesley H. Bauck, 2700 Cramer street, Camden.

Miscellaneous Construction News

Hotel, Washington, D. C. Architect, E. L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, name withheld. Brick, limestone, reinforced concrete, terra cotta, granite, 7 stories, 48x102 feet, slag roof, cement floors, hollow tile and gypsum partitions, elevators, vapor heat, electric light, tile and marble work, rolled steel sash, kalamein revolving doors, ornamental plaster. No kitchen or dining room equipment. Plans in progress.

Women's Educational Building, Morgantown, W. Va. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, University of West Virginia, Morgantown, W. Va. Brick, cut stone, steel, 4 stories and basement, 114x51 feet, 51x34 feet, 90x58 feet, slag, slate and cement roof, cement, maple and terrazzo floors, hollow tile, concrete work, swimming pool(gym, waterproofing, metal lath, tile work, metal sash, ison stairs, ornamental iron work. Deposit $25.00, refunded. Architects taking bids due July 2nd, 3 P. M.

Manufacturing Plant, Fairport Harbor, Ohio. Archtiects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, P. C. Tomson & Co., 27 Washington avenue, Philadelphia. Reinforced concrete, steel, brick and hollow tile, 2 stories, 221x121 feet, slag roof, cement floors, flat slab construction, steam heat, electric light, plumbing. Owners taking bids due June 29th.

Residences (2), Fourteenth street, Wilmington, Del., $10,000. Architect, private plans. Owner, George S. Charles, 701 Tatnall street, Wilmington, Del. Brick, 2 stories, 14x50 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Garages (20), Scott and Lincoln streets, Wilmington, Del., $5,000. Architect, private plans. Owner, P. J. Ford, 622 North Broome street, Wilmington, Del. Concrete block, 1 story, 96x20 feet, slag roof, concrete floors. Permit granted.

Miscellaneous Contracts Awarded

Residence, Chatham, N. Y., $36,000. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, Dr. Robert S. White, Third and Chestnut streets, Philadelphia. Frame, 2½ stories (heating reserved), electric light, tile work, shingle roof, hardwood floors, plumbing. Contract awarded J. H. Dawson & Son, Folcroft, Pa.

Store, 724-26 King street, Wilmington, Del., $30,500. Architect, private plans. Owner, H. Kaufman, on premises. Brick, 2 stories and basement, 36x10 9feet, hardwood floors, elevators, plate glass, electric light, tile and marble work. Contract awarded to D. Cantera, 1911 West Ninth street, Wilmington, Del.

Residences (4), Wilmington, Del., $24,000. Owners, Newport Land Investment Co., Industrial Trust Building, Wilmington, Del. Brick, 2 stories, 20x32 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to P. J. Fahey, 622 North Broome street, Wilmington.

Community Garage, Van Buren street, Wilmington, Del., $4,800. Owner, Mrs. Addie Vandever, 700 West Twenty-first street, Wilmington, Del. Brick, 1 story, 9x18 feet each, slag roof, concrete floors, electric work. Contract awarded to B. H. B. Ennis, Jr., Baltimore, Md.

Proposal

SEALED PROPOSALS, addressed to the Chairman of the Building Committee. will be received by Board of Trustees, Laurelton State Village, Laurelton, Union County, Pennsylvania, until 10.30 A. M., July 3, 1926, and then and there publicly opened for the following items:—

1. Cottage No. 8. Construction, plumbing, heating and electrical work.
2. Water main.
3. Sewer main.
4. Steam distribution system, including piping and auxiliaries in Boiler House; underground system of piping; alteration and additions to heating and hot water systems in buildings.

Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability: equipment and organization to assure speedy completion of the contract, and in making awards, the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. Drawings and specifications

may be obtained upon application to George S. Idell, Architect, 1510 Chestnut Street, Philadelphia, Pa., for Items 1, 2 and 3, and from Stewart A. Jellett Company, 1200 Locust Street, Philadelphia, Pa., for Item 4, upon a deposit of $10.00 payable to Laurelton State Village, as security for safe return of the drawings and specifications within ten (10) days after date of opening proposals.

A certified check for five per cent. (5%) of bid or an approved bidder's bond to the amount of five per cent. (5%) of bid must accompany all proposals, as a guarantee that successful bidder will execute the contract and furnish a satisfactory surety bond in the full amount of same.

Architects, Contractors, Builders, Estimators, Appraisers and Engineers will be interested in the "New Building Estimators' Hand Book," by William Arthur, published by the Scientific Book Corporation, 15 East 26th Street, New York City.

All data regarding the cost of construction work, the price of materials or supplies, or the estimate on any structure, from a bungalow to a skyscraper, are contained in this book.

In compiling the "New Building Estimators' Hand Book" Mr. Arthur has drawn not only from his own wide experience, but from that of the leading industrial concerns in America allied with the building trade.

There is a complete set of tables covering all phases of estimating in the entire structural field. In the computations of many estimates, for example, flexibility is gained by using a flat rate unit per hour based on one dollar per hour for mechanics and sixty cents per hour for laborers.

By using this basis the carpenter or builder may readily adapt the tables to any local rate. Attention is given to the time required to install materials and arranged so that any rate of wages may be applied.

This is a book that will never accumulate dust on the estimator's desk, for every branch of the building industry is covered and no detail is too small for consideration.

The price of the "New Building Estimators' Hand Book" is $6.00, and it may be purchased through the BUILDERS' GUIDE, 1530 Chestnut Street, Philadelphia.

(Continued from page 388)

ation before laying the sheet asphalt surface course. This binder course is similar to the asphaltic base mixture mentioned above. It consists of stone ¼ of an inch to ¾ of an inch in size, which is mixed with sand and asphalt cement and laid in the same manner as later described for the sheet surface course. The binder course mixture should have the following proportion by weight:

Stone retained on a sieve having 10 wires per inch—60 to 80%.

Sand passing a sieve having 10 wires per inch—15 to 35%.

Asphalt cement (pure bitumen)—4 to 6%.

The sheet asphalt surface course, which will not require the above described binder course if the foundation be of asphaltic concrete or portland cement concrete, should be from 1 inch to 1½ inches in depth. In order to obtain the best results a carefully graded sand should be employed. This, when mixed with the asphalt and limestone dust, which should pass a sieve having 200 meshes per inch, should give a mixture which will have the following composition by weight:

Sand passing a sieve having 10 meshes per inch and retained on a sieve having 40 meshes per inch—10 to 40%.

Sand passing a sieve having 40 meshes per inch and retained on a sieve having 80 meshes per inch—22 to 45%.

Sand passing a sieve having 80 meshes per inch and retained on a sieve having 200 meshes per inch—12 to 30%.

Dust passing a sieve having 200 meshes per inch—10 to 20%.

Asphalt cement (pure bitumen)—9.5 to 12%.

The asphalt cement for both the binder and surface courses should be of a consistency such as to show a 50 to 60 penetration test when used in warm climates and from 60 to 70 when used in cold climates where the temperature falls below 10 degrees F.

The above mixture should be prepared at a paving plant where the sand and asphalt can be heated to approximately 350 degrees F. A temperature above 400 degrees F. is not desirable since it tends to injure the asphalt. The quantity of asphalt paving mixture necessary for one or two tennis courts would hardly be sufficient to justify the setting up of an asphalt paving plant, it is therefore desirable to obtain the mixture either from a municipal plant or a contractor's street paving plant in the vicinity. After it is prepared the mixture can be hauled hot by truck any distance ranging up to 20 miles if necessary.

Where a hot-mix asphalt plant is not available a cold mix may be made with especially treated asphalt products known as emulsified asphalts and cut-back asphalts which are liquid at ordinary temperatures. Satisfactory materials of this kind are on the market and can be mixed with unheated sand to produce a paving mixture that will harden in a few days and produce a stable surface.

The surfacing material should be dumped from the trucks upon boards or platforms from which it can be spread by shovels over the prepared foundation course and then raked to a depth such that after rolling it will be at least one inch thick. Rolling should follow shortly after the spreading and while the mixture is still pliable. Thorough compression is essential and while heavy hand rollers will give satisfactory results it is preferable to use a power roller of at least five tons' weight if one is available. After thorough compaction has been obtained it is desirable to sweep over the surface a sprinkling of limestone dust or portland cement and to finish the surface with a final rolling in all directions diagonally and longitudinally.

An asphalt surface does not produce glare under sunlight. It has a dark gray color that is restful to the eye. In some cases, however, it has been thought desirable to tint the surface with a green cromic oxide paint to give it more nearly the appearance of the grass court. Various other solutions are also to be found on the market for this purpose and can be applied by means of a forced spray. The lines are marked out by means of stencils with a solution in white. The best results are obtained by applying the solution in two thin coats. The second coat should not be attempted until after the first has thoroughly dried. On some courts a special finish has been used which gives the surface a pleasing color of deep red.

ACORN
TILE COMPANY
Tile Work
INTERIOR AND EXTERIOR
CLEMENTON, N. J.
Mosaic Ceramic and Quarry Tile Floors
Bell Phone—Laurel Springs 112 R 2

TILE
MARBLE
MOSAIC
CERAMICS
Camden Tile Co.
1484 Bradley Avenue
CAMDEN, N. J.
BELL PHONE
CAMDEN 3827 W

GENERAL INSURANCE | SMITH-AUSTERMUHL CO. | SURETY BONDS
5th and Market Streets, Camden, N. J.
BELL PHONE, CAMDEN 3210 KEYSTONE, CAMDEN 3147

The penetration method of construction is also used sometimes for court surfacing. The usual procedure is to spread a uniform course of crushed stone 1½ inches to 2 inches in thickness upon the foundation of cinders, crushed stone or gravel. The stone used should be ¾ inch to 1¼ inches in size and should be rolled dry sufficiently to set it in position. Over the dry stone, which should present a firm, true surface of even texture, is poured asphalt cement heated to about 300 degrees F. The asphalt cement should be of a consistency that will give a penetration test of 100 to 150. About one-sixth of a gallon of asphalt per square foot will be required completely to coat the stone in this surface course. A cover of stone chips usually is spread over the surface, followed by thorough rolling. A hot hand-roller has been found to give sucient compression, but a 5 ton roller is preferred. In order to obtain a smoother surface it is sometimes desirable to apply a second light coating of asphalt cement. This treatment is but one-fourth as much as the first and is covered with fine stone chips and finished by thorough rolling. The penetration type courts have turned out to be very satisfactory but since the surface is not as accurate as that obtained from the mixed types, the penetration court generally is not used for tournaments.

The accompanying table gives the quantities of materials required for the courts above described.

FOR ASPHALT TENNIS COURTS
QUANTITIES OF MATERIALS REQUIRED
(Per square foot of paving)
(one inch thick)

Material	Compacted found. per 1 inch Thick. lbs.	Asphaltic binder course per 1 inch Thick. lbs.	Sheet Asphalt surface per 1 inch Thick. lbs.	Penetration macadam surface per 1 inch Thick. lbs.
Crushed Stone	10	8.6		12.0
Sand		3.3	8.5	
Stone Dust			1.6	
Asphalt Cement		0.7	1.2	0.9
Total	10	12.6	11.3	12.9

NOTE—Stone weighs (loose) 2400 to 2800 lbs. per cu. yd. Sand weighs from 2300 to 2600 lbs. per cu. yd. Asphalt weighs from 8.3 to 8.8 lbs. per gallon.

Another and less expensive method of obtaining a desirable tennis court surface is that of the treatment of a sand clay or gravel base with an asphaltic oil. For a new court it is preferable to construct in the usual manner a gravel or sand-clay base and use it for several months so that it will become thoroughly set. The surface is then dragged and carefully brought to a true plane. Upon this is sprayed a light coating of asphaltic oil at the rate of about 0.03 gallon per square foot, or a total of about five barrels for a court 60 feet by 120 feet. This surface is then covered with fine stone chips or coarse sand and is allowed to stand for twenty-four hours. About 1½ to 2 tons of cover materials are required to each barrel of asphaltic oil used. A roller, if available, may be used to advantage. The asphaltic material may be a liquid which can be applied cold, or on a gravel surface a somewhat heavier asphaltic oil which must be heated before application can be used. When the lighter oil is used, renewed applications will be required about every year, while with the heavy hot oil several years may intervene between applications. And after several treatments a lasting surface will have been built up.

IDEAS ABOUT INSULATION

BY HARRY CARLETON

With the same profligacy with which we have spent our national resources, so we have built our houses and buildings. We have built them so that they leaked heat like a sieve, and have let cold percolate through the walls so that extravagant heating plants have been taxed to the limit to keep us in that hot house state of heat our comfort seems to demand.

Then all of a sudden, we come to earth and begin talking about conservation and insulation, and several firms begin making insulating materials and advertising them with great "wim and wigor." The building public is urged and begged to insulate its houses with this and that, and it is told that wrapped in a blanket of "Blank" insulation, it will be snug and safe from cold wintry blasts and cold and comfortable in summer monsoons.

Undoubtedly many of these insulating materials have merit; doubtless they will render efficient service; but without doubt not a one of them is of any value whatsoever unless properly installed. The best material in the world, improperly used, will not render service, while a poorer material, carefully used, will give splendid results, and this applies to all materials.

A little resume of physics is necessary so that the problem of insulation may be handled properly. In physics we learn that only confined dead air broken into tiny pockets offers proper insulation. We learn also that heat rises, or that heated air rises, and cold air falls. We know that a seat under the roof in a theatre is hotter than an orchestra seat, thus proving the things we were taught in school. We also know from experience that if we cover all parts of our bodies even lightly that we are more immune to cold. Let's accept these things as facts and then apply them to building.

The walls and roof of a building are the protection against the elements, the windows and doors are the bare hands and feet, and any other opening, no matter how minute, offers another chance for leakage. We cannot live in windowless and doorless houses, so the best we can do is to weather-strip these openings with the best strips obtainable and stand the heat loss through the glass. In case of very exposed locations with high winds, storm windows offer excellent proection and keep out heat losses. Every house owner should carefully examine the putty around the glass in his windows, for loose and broken putty often is a source of leakage.

When it comes to the walls, we must be careful to seal them all tightly, and make certain that no only are the big areas blanketed but also that the blanket carries tight against or into frames, for here is a prolific source of loss. The best of workmanship and care is necessary to obtain results, for unless a tight joint obtains between the edges of the insulation, a lot of expense is entailed with negligible results.

Recently I saw a frame house that was being insulated, and wide gaps appeared between the sheets of insulation. This sort of shoddy workmanship offers no protection worth mentioning. I have seen a roof carefully insulated—and the cornice left exposed. Until some method of stopping shrinkage in materials is found we are bound to have shrinkage cracks, and cornices should be carefully insulated.

In frame houses it is advisable, even after careful insulation is applied to the walls, to break the vertical air spaces between studs as often as possible with bits of board or insulation. These breaks serve to obstruct the passage of air, and air in motion is useless as insulation.

In brick and hollow tile houses, it is often difficult to seal the mortar joints at the ends of the tile. One builder solves this problem neatly. After the furring is erected, he applies a light coat of cement mortar to the tile between the strips, and this seals the wall. He also is careful to slush the joint between tile and brick full of mortar, and to use wooden wind breaks at all openings. These two operations seal whatever air there may be in the wall very effectually, and prevent currents from moving.

With the demand growing for insulation, there are a number of new products on the market. Some of them are excellent—a few seemingly were created only for the purpose of sale and have little merit. Some lend themselves easily to use, others require much labor. When you choose insulation, choose by quality rather than price, and give its installation the maximum of inspection.—*Building Industry.*

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—Elbert Hubbard.

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
chitectural Cast Cut Stone Co.....Westmont, N. J.

ARCHITECTURAL IRON WORK
aker City Art Metal Works,
2445 N. Second St., Phila.

ARTESIAN WELLS.
ldpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
bbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
ell, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
ue Print Shop.....1520 Sansom St., Phila.
bbins, Chas. H., Co.....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
ell, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER.
ue Print Shop.....1520 Sansom St., Phila.
bbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
ell, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS.
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
x, Janeway, & Co..Real Estate Trust Bldg., Phila.
M. & C. M. Siner..Church and Tacony Sts., Phila.
celsior Brick & Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving).
tcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
tchell Bros. .....2125 Race St., Phila.
iser, M. J. .....4238 Old York Road, Phila.
seph Rotornado.....4740 Milnor St., Phila.

BUILDERS' SUPPLIES.
rvice Supply Corporation,
20th and Venango Sts., Phila.
e Van Sciver Corporation,
The Parkway at 24th St., Phila.
st Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
skey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
chitectural Cast Cut Stone Co. ...Westmont, N. J.
neland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
e Van Sciver Corporation.
The Parkway at 24th St., Phila.
st Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
Lauro, John.....7732 Ardleigh St., Phila.
rsch, Wm. F. .....Narberth, Pa.
ssiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.

COLUMNS (Metal).
arce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE SEWER PIPE.
oudsburg Septic Tank Co..328 Chestnut St., Phila

CONCRETE WORK.
rsch, Wm. F. .....Narberth, Pa.
ssiah, Frederick.. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
vitt, Paul J. .....1101 S. 2nd St., Phila.
e T. Ward Co. .....617 Filbert St., Phila.
rvice Supply Corporation, 20th and Venango Sts.

CORK FLOORING
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.
by Battersby & Co. .....810 Noble St., Phila.

CURTIS WOODWORK.
llingham Co ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
ilding News Pub. Co. ...1530 Chestnut St., Phila.

DAMPPROOFING.
ti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
rnett Bingswanger.....829 N. 3rd St., Phila.
ncrete Waterproof Paint Co..829 N. 3rd St., Phila.
ster Builders Co., ...Otis Bldg., Phila.
uscon Laboratories.....1505 Race St., Phila.

DOOR BEDS
rphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS.
bbins, Chas. H., Co. .....1729 Sansom St., Phila.
ber, F. Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

EXCAVATING.
rsch, Wm. F. .....Narberth, Pa.
nitary Sewage Disposal Corp..40 S. 52nd St., Phila.

FENCES.
ttit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
tts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
lsbord, Wolf .....4437-43 Ludlow St,. Phila.

FINANCING (BUILDING)
mmercial Advance Corp., 1011 Chestnut St., Phila.
rtgage Extension Corp.,.1011 Chestnut St., Phila.

FIREPROOFING.
arce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES.
E. Lingo & Son .....Camden, N. J.

FLOOR HARDENER.
ti-Hydro Waterproofing Co., 24th and Parkway.
ncrete Waterproof Paint Co...829 N. 3rd St., Phila.
ster Builders Co., ...Otis Bldg., Phila.
uscon Laboratories.....1505 Race St., Phila.

FLOORING (Rubber Tile).
milton Rubber Mfg. Co. ..2313 Walnut St., Phila.
by Battersby & Co. .....810 Noble St., Phila.

FLOOR PLATES.
od, Alan, Iron & Steel Co..Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. .....44 N. 5th St. Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.

GAS RANGES.
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GRADING
Harsch, Wm. F. .....Narberth, Pa.

GRANITE
Architectural Cast Cut Stone Co. ...Westmont, N. J.
John Meehan & Son.....916 W. Dakota St., Phila.
Vineland Architectural Cast Stone Works,
Vineland, N. J.

HARDWARE (Builders').
Devitt, Paul J. .....1101 S. 2nd St., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....7038 Gray's Ave., Phila.

HEATING BOILERS.
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.

HOLLOW TILE.
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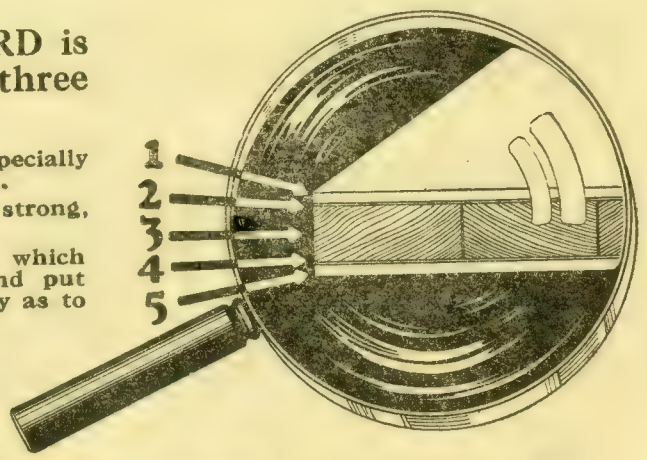
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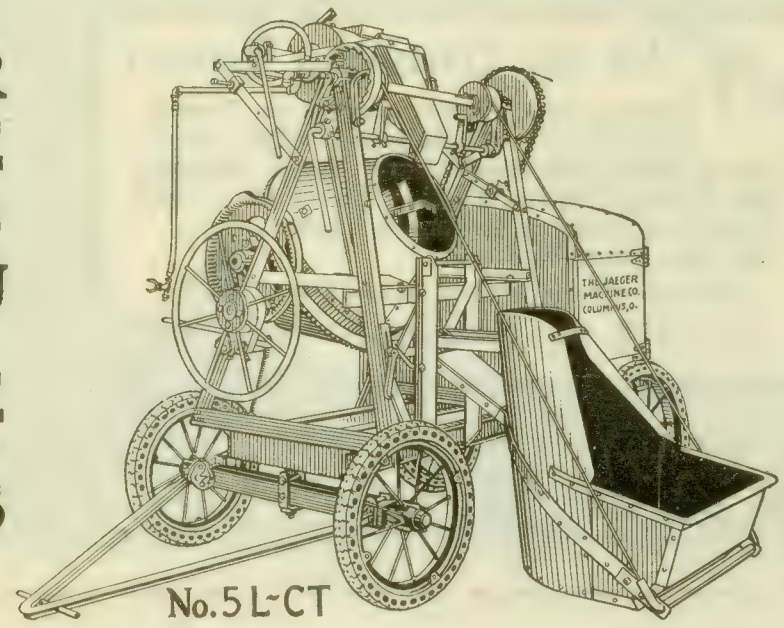
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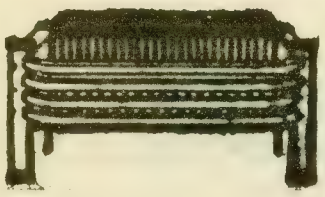
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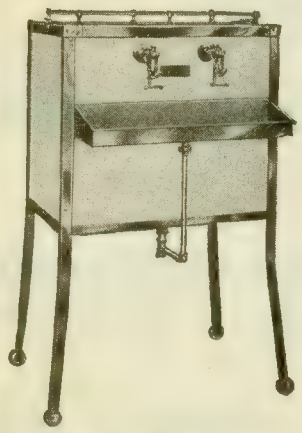
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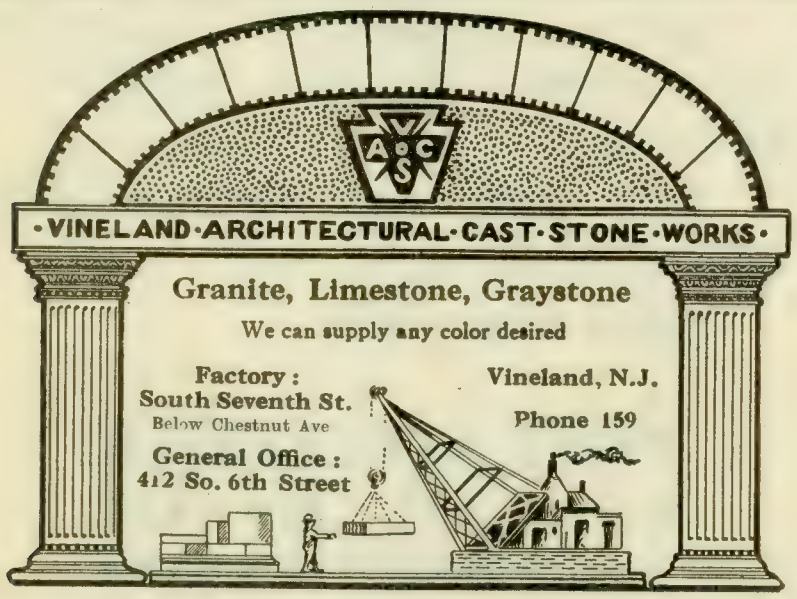
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BUILDERS' GUIDE

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Number 26

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June 30, 1926

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As The Editor Sees It

OIL ENGINES WILL HAVE PLENTY OF FUEL

Owners Need Not Fear Shortage of Oil Says James O. Lewis

No danger exists of a scarcity of fuel for the constantly increasing number of oil-burning engines in use in industry and transportation throughout the country, according to James O. Lewis, former Chief of the Petroleum Division of the United States Bureau of Mines and a recognized authority on the petroleum situation.

Writing in the June issue of *Compressed Air Magazine*, Mr. Lewis points to a future supply of petroleum from undeveloped fields and also from oil shale and through distillation of coal and lignite which, he says, along with more economical utilization of available supplies for all uses, removes any fear of an oil shortage.

Apprehension as to the future supply of oil, Mr. Lewis says, has interfered with a more wide-spread use of the internal combustion engine of the so-called Diesel oil-burning type, whose economy of operation is its distinctive feature. This apprehension, he characterizes as unjustified, in light of analysis of the country's potential petroleum reserves.

Mr. Lewis writes, in part, as follows:

"Perhaps the situation may be summarized as follows: Supplies of cheap, 'flush' oil from new pools cannot be counted on to meet all demands for many years to come; other undeveloped sources of supply are incomparably greater than the resources from which oil has been obtained up to this time, and these latent resources should meet all our more essential needs indefinitely—among these needs being fuel oil for oil engines; and, when it becomes necessary to rely on these latent resources, higher, yet not excessively high prices may be expected for petroleum products. Higher prices at such times will, no doubt, cause many users of cheap fuel oil to revert to the use of coal or to other alternative sources of heat and power. Even so, the oil engine will have such a margin of advantage over the other users of fuel oil that it will be able to compete successfully for supplies under well-nigh every conceivable contingency.

"For some years in the recent past there was an oversupply of crude oil, caused by the discovery of new fields and the working of them faster than markets could be extended to absorb the increased production. Such periods of overproduction have alternated with periods of undersupply, and no one can foretell how these changing circumstances may succeed one another or how long each will endure. It is obvious, however, inasmuch as just so many pools will be discovered, that eventually the time must come when new pools can no longer be found fast enough to offset the decline of old wells—in short, the pools will not be able to provide for continually increasing consumption.

"Were there no other resources, the situation might be alarming; but we are coming more and more to evaluate not only the limitations in discovery of such new flush pools—with attendant cheap oil—but also the almost unlimited latent resources, which because of this low-priced oil, we have not had occasion to develop. These latent resources are numerous, and our future oil needs will be met from the sum of them rather than from any one of them. Production from new flush pools will not disappear overnight; but a time will come, possibly within the near future, when such production will reach a peak

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and thereafter gradually decline. The problem will then become one of filling in the gap between this declining production and the ascending demand for oil.

"What are these other resources? First of all, because in that way it will be possible quickest to meet any deficiency, it will be necessary to increase importation of oil from foreign countries—principally from South America. During the past decade explorations have gone on continuously in Venezuela and Columbia, and fields have been discovered that should provide large supplies of petroleum when fully opened up; but, because of the greater cost of development in foreign countries, this oil from alien sources will probably not be so cheap as oil is at present.

"Let it be emphasized at this point that we are by no means dependent or likely to be dependent upon foreign sources of supply to make up a shortage in fuel oil. We know, as a matter of fact, that but a fraction of the oil underground in any of the domestic fields is being extracted from our oil sands by methods commonly employed—ways will be made available by which a considerable percentage of this residual oil will be recoverable. By two different processes, already devised, oil extraction has been increased in some wells from two to four times and under profitable commercial conditions, and a third process has been worked out which has proved of practical success in Europe. It has been demonstrated conclusively that the oil remaining in the sand—after mining by the usual method—varies from three to nine times more than the oil already extracted from the pools in question. What average increase in extraction may be looked for cannot now be fixed with any certainty—in fact, the output will be determined largely by the price asked for the oil and what outlays will be warranted in recovering it; but it is clear that tremendous increase in the yield will come from existing oil fields.

"Considered upon a potential quantitative basis, the most important latent resources of fuel oil is our oil shales. These exist in enormous measures in both the eastern and western parts of the country. Oil shale resembles a poor grade of cannel coal; and to obtain the contained oil it is necessary to mine, to crush, and to retort the shale. The quantities of oil in such shale deposits are vastly greater than the amounts of petroleum in our oil sands. Even so, the exploitation of our oil shales will require an immense sum of money and involve much time to develop satisfactory extraction methods and to install equipment of sufficient capacity to supply enough oil to meet any large share of our needs.

"Oil from oil shales will be available shortly, but in relatively small quantities; and the output will gradually supplement our other sources of supply as the technique is developed which will render practicable the commercial extraction of this oil on a suitable scale. Oil from these shales will be relatively but not excessively high-priced oil.

"Other promising sources of liquid fuel are oils produced by the low-temperature distillation of coal as well as alcohols from various waste vegetable products and other sources. Some allowance must also be made for processes and sources not as yet demonstrated as commercially feasible—such as the chemical treatment of coal, etc., or the development of other power sources which seem remote today and yet may prove important factors in the life of an oil engine purchased at the present time. Any product that will replace gasoline will have its effect upon existing fuel oil because much of the gasoline now available is obtained by processing fuel oil.

"The outstanding fact, so far as it concerns the expected useful life of an oil engine bought today, is that the future supply of liquid fuel can be drawn from large and varied sources, and the utilization of these is now merely awaiting de-

(Continued on page 415)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Bank and Office Building, Southeast Corner Seventeenth and Chestnut streets, Philadelphia. Architects, Rankin, Kellog & Crane, 1805 Walnut street. Associate architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owners, Provident Trust Co., 409 Chestnut street, Philadelphia. Steel, limestone or granite. Plans in progress.

William Penn Theatre (alts. and add.), Fairmount and Lancaster avenues, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Stanley Company of America, 1916 Race street, Philadelphia. Work contemplated early in 1927. Sketches being prepared.

Residences (2), Vernon road and Stenton avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, J. A. Curley, care of architect. Concrete block, stucco, 2½ stories, hot water heat, electric light, tile roof, hardwood floors, tile work (1 house) brick, shingle roof, hardwood floors, hot water heat. Plans in progress.

Apartment House, 4305 Spruce street, Philadelphia. Architect, private plans. Owner, S. S. Silverman, 803 Land Title Building, Philadelphia. Brick, terra cotta, 3 stories, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, plumbing, ornamental iron work. Owner will build.

Nurses' Home, Chestnut Hill, Pa. Architects, Willing, Sims & Talbutt, 10 South Eighteenth street, Philadelphia. Owners, Chestnut Hill Hospital, 8815 Germantown avenue, Philadelphia. Stone, steel, 3 stories. Architects will be ready for bids in two weeks.

Swimming Pool, Twenty-seventh and Indiana avenue, Philadelphia. Architect, Paul J. Henon, Jr., Finance Building, Philadelphia. Owners, Department of Public Works, Bureau of Recreation, 595 City Hall. Reinforced concrete, limestone, brick, steel, 1 story, 90x35 feet, slag and asbestos shingle roof, cement floors, steel doors, rolled steel skylights, bond, floor hardener, ornamental iron work, Anti-Hydro waterproofing. Certified check, 5 per cent. of bid. Owners taking bids due July 1st, 11 A. M. (Standard Time).

Store and Office and Apartments, Oxford avenue and Arrott street, Philadelphia. Architect, Karl Otto, 1828 Arch street, Philadelphia. Owner, L. M. Deere, 1332 Arrot street, Philadelphia. Brick, steel, 2 stories and basement, 66x20 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Architect taking bids due as soon as possible.

Store (alts.), Northwest Corner Twenty-second and Oxford streets, Philadelphia. Architect, C. M. Wells, Ruthledge, Pa. Owner, Davis Floncer, on premises. New front, 16 feet and 71 feet, Kawnear bulks, mineral floors, hot water heat extension, electric light, plate glass, brass grills, tapestry brick. Owner taking bids due as soon as possible.

Miscellaneous School Work, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids July 6th, 11 A. M. (Standard Time). Alterations and additions to heating, new belt on fan, plumbing, sanitary improvements, wire screens, weaeher stripping, tearing down building, grading, paving, repairs and paint to roof, new smoke stacks, lighting fixtures, alterations to electric equipment, clocks, button boards, telephones, bells.

School, Hancock and Wildey streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, City of Philadelphia, Nineteenth above Chestnut street. Brick, cut stone, steel, reinforced concrete, 3 stories and basement, 127x111 feet (plumbing, heating, electric separate bids), slag roof, cement and maple floors, hollow tile, safety treads, metal lath, tile and marble work, rolled steel sash and doors, ornamental iron work, granite, steel partitions. Owners taking bids due July 6th.

Home for Incurables, Conshohocken and Belmont avenues, Philadelphia. Owners, Philadelphia Home for Incurables, Forty-eighth and Woodland avenue, Philadelphia; Mrs. Caleb Milne, 6611 Wissahickon avenue, Philadelphia, chairman of Building Committee. The Balginger Co., Twelfth and Chestnut streets, Philadelphia, preparing preliminary sketches.

Club House, Sixteenth and Locust streets, Philadelphia, $500,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Locust Club, H. Sundheim, president, Bankers' Trust Building, Philadelphia. Stone, brick, steel, 10 stories, swimming pool, dining room, etc. Preliminary plans in progress.

Apartment House (4 buildings, Northwest Corner Forty-seventh and Kingsessing avenue, Philadelphia. Architect, H. A. Goddard, 1524 Chestnut street, Philadelphia. Owner, Ruben H. Isdaner, Pennsylvania Building, Philadelphia. Brick ,steel, 4 stories, 25x84 feet each, slag roof, hardwood and composition floors, steam heat, electric light, tile work. Owner ready for sub-bids.

Toilet Building (alts. and add.), Randall School, Ninth and Bainbridge streets. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Bond, demolition, cement and concrete, structural steel, brick work, iron work, metal toilet partitions, carpentry and mill work, tin roof, sheet metal work, painting and glazing, hardware. Owners taking bids due July 6th.

Residence (alts.), Quincey street and Carpenter street, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Dr. J. T. Ullom, on premises. Brick work, stone work, carpentry and mill work, painting, tile work, plumbing (hot water heat alterations). Architects taking bids due July 1st.

Concrete Tunnel, Twenty-first and Oregon avenue, Philadelphia. Owners, Philadelphia Q. M. I. Department, Twenty-first and Oregon avenue, Philadelphia. Extension of concrete tunnel. Information upon application. Owners taking bids due July 2nd, 10 A. M. (Standard Time).

Residences (61), Fifty-eighth, Malvern avenue and Coleman street, $230,800. Architect, private plans. Owner, Charles M. Weild, Fifty-ninth and City avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Storage Bins, North side Tyson street, West of Delaware avenue, $20,000. Owners, West Jersey Sand & Supply Co., Beach and Marlborough streets. 1 story, 32 feet 5 inches x 78 feet. Permit issued.

Restaurant, Sesqui Grounds, Philadelphia, $10,000. Architect, private plans. Owners, Muller Brothers, 1222 North American Building, Philadelphia. Frame, 1 story, 106x87 feet. Permit issued.

Warehouse, 2314-16 North Second street, Philadelphia, $10,000. Architect, private plans. Owner, H. Rose, 1778 Frankford avenue, Philadelphia. Brick, 2 stories, 37x120 feet, slag roof, electric light, steam heat, oil burner. Permit issued.

Residences (2), East side Ardleigh street, North of Vernon road, $9,000 each. Architect, private plans. Owner, Arch. Schock, 45 North Graver's lane, Philadelphia. Brick, 3 stories, 18x17 feet, 18x30 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (23), 3317-61 Bowman street, Philadelphia, $4,000 each. Architect, private plans. Owner, M. J. McCrudden, Real Estate Trust Building, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, pine floors. Permit issued.

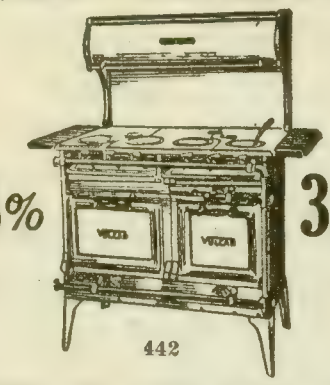
Residences (6), North side Hermitage street, East of Fleming street, $4,000 each. Architect, private plans. Owner, Joseph W. Hyde, 357 Lyceum avenue, Philadelphia. Brick, 2 stories, 16x35 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

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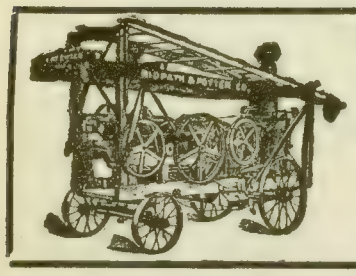
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avenue and Conarroe street, $4,000. Architect, private plans. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, 1 story, 14x18 feet. Permit issued.

Service Station, Southeast Corner Haines and Stenton avenue, Philadelphia, $4,000. Architect, private plans. Owners, Atlantic Refining Co., 260 Soueh Broad street, Philadelphia. Brick, 1 story, 14x18 feet, slag roof, cement floors. Permit issued.

Machine Shop (add. and alts.), 806 North Front street, Philadelphia, $2,500. Owners, Philadelphia Coppersmith Co., 808 North Fourth street, Philadelphia. Brick, 1 story add., 66x18 feet, general alterations. Permit granted.

Residences (2), South side Bridge street, West of Garden street, $6,000 each. Architect, private plans. Owner, Stanley Bialas, 4353 Belgrade street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (42), Sixty-fourth and Dicks avenue, Philadelphia, $214,000. Architect, private plans. Owner, James McHugh, 5213 Chestnut street, Philadelphia. Brick, 2 stories, (4) 16x40 feet, (38) 16x28 feet, 12x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Manufacturing Building (add.), Southwest Corner Fraley and Tacony streets, $20,000. Architect, private plans. Owners, Abrasive Co., on premises. Brick, 2 stories, 30x105 feet. Permit granted.

Apartment House (alts.), 4145-47 Girard avenue, Philadelphia, $5,000. Architect, private plans. Owner, Harry Pearl, 625 South Sixty-third street, Philadelphia. General alterations. Permit granted.

Residences (2), 7342-44 Montour street, Philadelphia, $3,800 each. Architect, private plans. Owner, Frederick G. Ziele, 7346 Montour street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, pine floors, hot water heat, electric light. Permit granted.

Garage (alts.), 2759 Kensington avenue, Philadelphia, $3,000. Architect, private plans. Owner, A. Leibowitz, 1112 Franklin Building, Philadelphia. Gypsum roof. Permit granted.

Residences (33), Gransback street, Louden to Rockland, $150,300. Architect, private plans. Owner, Frank Shilling, 175 Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 15x27 feet, 11x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (20), Sixteenth street and Sixty-fifth avenue, Philadelphia, $101,000. Architect, private plans. Owner, Joseph Cutler, 6720 North Eighteenth street, Philadelphia. Brick, 2 stories, 16x66 feet and 15x71 feet, 12x17 feet, slag roof, hardwood and pine floors, hot water heat. Permit issued.

Residences (33), Gransback, Louden and Rockland streets, Philadelphia, $150,300. Architect, private plans. Owner, Frank Shilling, 175 Roosevelt Boulevard, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residence, Southwest Corner Eighty-sixth and Suffolk streets, Philadelphia, $4,500. Architect, private plans. Owner, John Cunningham, Wister road, Ardmore, Pa. Brick, 2 stories, 17 feet 10 inches x 40 feet, slag roof, pine floors, hot air heat, electric light. Permit granted.

Bungalow, South side Ashwood avenue, West of Eighty-third street, Philadelphia, $3,500. Architect, private plans. Owner, William Thompson, Eighty-third and Ashwood avenue, Philadelphia. Brick, 1 story, 24x30 feet, hot air heat, electric light. Permit granted.

Contract No. 144, Broad Street Subway, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Low bidders: Jump Housewrecking Co., Forty-third and Woodland avenue, Philadelphia, $2,105.

Misc. Sewer Work, Phila. Owner, Dept. of Public Work, Bureau of Engineers, 216 City Hall. A—laterals in Germantown Avenue, Cresheim Creek and Highland Ave. B—Main Sewer, Champlost, Tioga and Clivedens Sts. C—Tset borings, for bridges. Certified check 5% of bds. Owner taking bids due July 7th, 11 A. M. (S. T.). Inquire 416 City Hall.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Dormitory, Chew and Penn streets, Philadelphia. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, St. Magdalen's Asylum, on premises.

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Stores, Northeast Corner Chelten and Greene streets, Germantown, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Corner Stores Corporation, care of Abram Felt, Packard Building, Philadelphia. Brick, limestone, steel, 1 story, 158x142 feet, slag roof, cement floors, steam heat, electric light, metal lath, terrazzo work, rolled steel sash and hollow metal sash, fire doors, ornamental iron work, floor hardener, architectural terra cotta. Contract awarded to A. B. MacGregor, 1628 Vine street, Philadelphia.

Garage, West side Sixteenth street, Addison to Waverley, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Samuel Frank, care of Stanley Coal Co., 136 Washington avenue, Philadelphia. Reinforced concrete, steel, brick, cut stone, 3 stories, 65x115 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash, rolling doors (steel), plate glass, elevators and ramps. Plans completed. Contract awarded to Builder Rosenburg, care of owner.

Store (alts.), 1113 Chestnut street, Philadelphia. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owner, Forbes, 1115 Chestnut street, Philadelphia. Interior alterations, carpentry and mill work, electric work. Contract awarded J. F. Roystone, 705 East Girard avenue, Philadelphia. Note contractor.

Residences (alts. and add. for Chapel), 617-25 North Forty-third street, Philadelphia. Architect, F. Ferdinand Durang, 1120 Locust street, Philadelphia. Owners, Parish of the Holy Saviour, Rev. V. A. Devers, on premises. General alterations and additions, carpentry and mill work, electric light, plumbing. Contract awarded E. M. Canny, Sixty-first and Sansom streets, Philadelphia.

Hotel, 1309-11 Walnut street, Philadelphia. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owners, Quality Realty Corp., Bernard Dorf, president, 614 Stock Exchange Building, Philadelphia. Contract awarded United States Construction Co., 614 Stock Exchange Building, Philadelphia. Plans in progress.

Elementary and Kindergarten School, Sixty-eighth and City Line, Overbrook. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Friends' Central School, Barclay Jones, Overbrook, Pa. Stone, 1 story. Contract awarded Robert E. Lamb Co., 841 North Nineteenth street, Philadelphia.

Office Building (alts.), 329 Walnut street, Philadelphia. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owners, E. R. Hunt & Co., on premises. Electric light, carpentry and mill work, plastering, plumbing, painting and glazing, cement work. Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

Alterations and Additions, Chestnut Hill, Pa. Architect, private plans. Owner, George Willing, Chestnut Hill, Pa. Stone, 2½ stories and basement, 20x50 feet, hot water heat, electric light, slate roof, oak and pine floors, metal lath, marble work, ornamental iron work. Contract awarded C. C. Eddleman, 1627 Sansom street, Philadelphia.

Spanish Exhibit Building, Sesqui Grounds, Philadelphia. Architect, private plans. Owners, Spanish Government, care of Sesqui Centennial Association, Philadelphia. Metal lath, stucco, steel, 1 story, 50x100 feet, Spanish tile roof, pine floors, electric light, metal lath, ornamental iron work. Contract awarded Austin Co., Jefferson Building, Philadelphia.

Stores and Offices (add. and alts.), 300 East Haines street, $3,500. Architect, private plans. Owner, Joseph Spagnolia, 304 East Haines street, Philadelphia. Brick, 1 story add., 16x30 feet, general alterations. Contract awarded to D. D. Steele, Darby, Pa.

Store and Residence (add.), 1020 Diamond street, Philadelphia, $8,000. Architect, private plans. Owner, William H. Mitchell, 1027 Diamond street, Philadelphia. Brick, 2 stories, 16x10 feet, slag roof, pine floors. Contract awarded to Weinstein & Pearson, 222 South Fifty-seventh street.

Store and Residence (alts.), Northwest Corner Twenty-second and Spruce streets, $6,000. Architect, private plans. Owner, Hy. Newman, City Center Building, Philadelphia. General alterations. Contract awarded to Barnett Co., Pennsylvania Building, Philadelphia.

Residence (add.), Southwest Corner Sixtieth and Lancaster avenue, $5,000. Owner, W. E. Garrett Gilmore, on premises. Brick, 2 stories add., 20x8 feet, slag roof, pine floors, electric work. Contract awarded to J. P. Hallahan, 2315 Walnut street, Philadelphia.

Gas Station, Northeast Corner Kensington and Sedgley avenues, Philadelphia, $5,000. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, 1 story, 46 x irregular. Contract awarded to Metzger, Fisher & White, Otis Building, Philadelphia.

Residences (2), North side Hoffnagle street, East of D street, $4,500. Architect, private plans. Owner, J. A. Bacher, 7862 Oxford street, Philadelphia. Brick, 2 stories, 16x35 feet, slag roof, pine floors, hot water heat,

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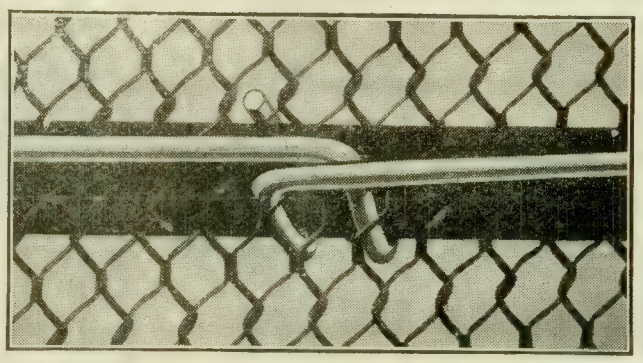
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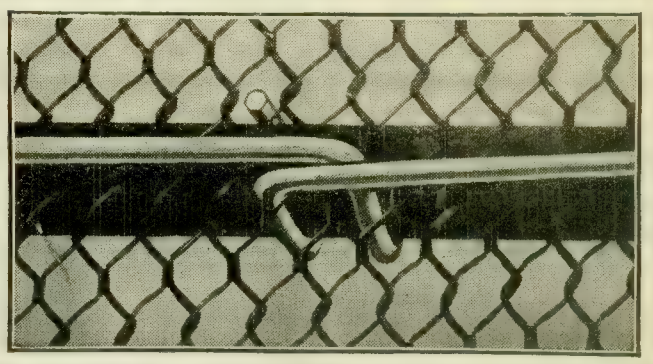
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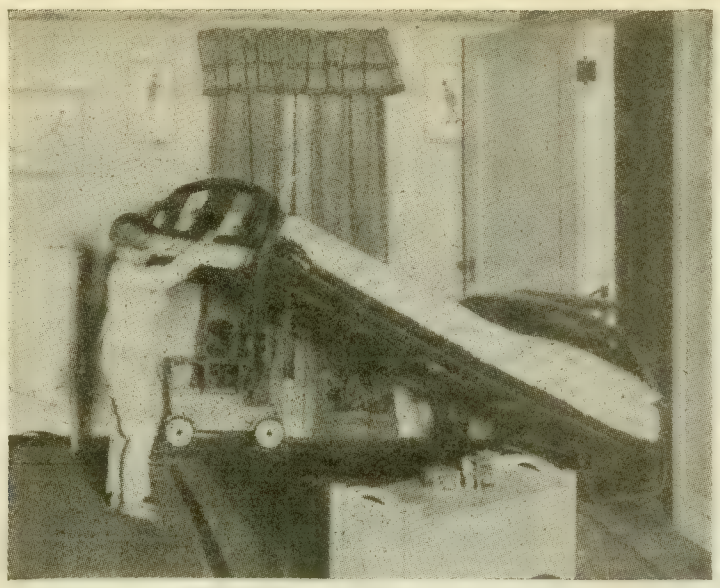
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Broadcasting Station, Sesqui Grounds, Philadelphia, $2,500. Owner, Stanley Getz, 6701 North Broad street, Philadelphia. Cement block, 1 story, 20x30 feet. Contract awarded to Commercial Eng. Co., 1524 Chestnut street.

Apartment House, 215 East Penn street, Philadelphia, $75,000. Owners, Glenn O. Martin, 900 Marlyn road, Philadelphia. Brick, 4 stories, 68x31 feet, 106x33 feet, slag roof, hardwood, pine and cement floors, electric light, tile work. Contract awarded to B. W. Glover, 6050 Girard avenue, Philadelphia.

Restaurant (alts.), 4701 Frankford avenue, Philadelphia, $8,000. Architects, Hodgens & Hill, 130 South Fifteenth street, and I. Demschick, 1701 Chestnut street, Philadelphia. Owners, Linton Lunch Co., Broad and Mt. Vernon streets, Philadelphia. General alterations. Contract awarded to Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

Residence (add. and alts.), Northwest Corner Forty-seventh and Baltimore avenue, $7,000. Owner, James N. Beers, on premises. Brick, 1 story add., 16x9 feet, general alterations. Contract awarded to Curtis-Grindrod Co., 10 South Eighteenth street.

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Store (alts.), Northwest Corner Third and Arch streets, Philadelphia, $4,000. Architect, private plans. Owners, French Cap Co., on premises. General alterations. Contract awarded to Frank I. Wintz, Inc., 1618 North Twenty-seventh street, Philadelphia.

Residence (alts.), 3032 North Fifth street, Philadelphia, $2,000. Owner, John Gossner, on premises. General alterations. Contract awarded to John L. Kraemer, 612 North Cambria street, Philadelphia.

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Gas Tank, East side Schuylkill, North of Passyunk avenue, $20,000. Owners, United Gas Improvement Co., Broad and Arch streets, Philadelphia. Contract awarded to Cruse-Kemper Co., Ambler, Pa.

Club House (alts. and add.), 17 East Price streets, Philadelphia, $10,000. Architect, private plans. Owners, Germantown Republican Club, on premises. Brick, 2 stories add., 30x65 feet, general alterations. Contract awarded to Robert D. Noonan, 81 High street, Philadelphia.

Residence, North side Sedgwick street, West of Anderson street, $18,000. Architect, John W. Keyes, 6223 McCallum street, Philadelphia. Owner, Emanuel G. Kolb, Bulletin Building, Philadelphia. Stone, 3 stories, 52x26 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to S. Harting & Son, 20 East Johnson street, Philadelphia.

Retaining Wall, North side Erie avenue, Front to Whitaker street, Philadelphia, $17,000. Architect, private plans. Owners, The Light House, Front and Erie avenue, Philadelphia. Contract awarded to Harrison, Mertz & Emlen, 1713 Sansom street.

Store, 6600 Torresdale avenue, Philadelphia, $8,000. Architect, private plans. Owner, George Strecker, 3509 Frankford avenue, Philadelphia. Brick, 1 story, 23x55 feet, slag roof, pine floors, electric light. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Store and Residence (alts.), Southwest Corner Eighth and Louden streets, $4,000. Architect, private plans. Owner, Samuel Heller, 4762 North Eighth street, Philadelphia. General alterations. Contract awarded to David Sloan, 4763 North Eighth street, Philadelphia.

Residence (alts.), 440 West Harvey street, Philadelphia, $3,000. Architect, private plans. Owner, E. P. Gaul, 440 West Harvey street, Philadelphia. General alterations. Contract awarded to E. A. Heffner, 6361 Cherokee street, Philadelphia.

Garage, West side Sedgwick street, South of McCallum street, $24,000. Architect, private plans. Owner, W. J. Smith, 1043 South Sixtieth street, Philadelphia. Brick, 1 story, 70x143 feet, slag roof, cement floors, electric work. Contract awarded to Edward V. Holland, 124 South Fiftieth street, Philadelphia.

Manufacturing Building (add.), 1506 Callowhill street, $20,000. Architect, private plans. Owner, Maurice Crown, on premises. Brick, third story add., 50x100 feet, slag roof, electric work. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

Storage Shed, South side Tasker street, East of Front street, Philadelphia, $10,000. Architect, private plans. Owners, McCahan Sugar Refining Co., Front and Tasker streets. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Residence and Store (alts.), 1941 South street, Philadelphia, $7,200. Architect, private plans. Owner, J. Resnick, 2045 South street, Philadelphia. General alterations. Contract awarded to Joseph Sosnovsky, 3129 Montgomery avenue, Philadelphia.

Residence (alts.) to Show Room and Office, 1732 Pine street, $6,000. Architect, private plans. Owners, W. J. Johnson & Co., 124 South Nineteenth street, Philadelphia. General alterations. Contract awarded to Stokes Brothers, 6723 Musgrave street, Philadelphia.

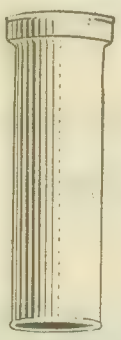
Residences (2), West side Whittaker street, North of Bleigh street, $5,500 each. Architect, private plans. Owner, Michael Schneider, care of builder. Brick, 2 stories, 14 feet 6 inches x 48 feet, slag roof, pine floors, electric work. Contract awarded to Harry Gorelick, 2427 North Douglas street, Philadelphia.

Residences (2), East side Belgrade street, South of Orthodox srteet, Philadelphia, $5,500 each. Architect, private plans. Owner, Joseph Beneczanski, Orthodox and Belgrade streets, Philadelphia. Brick, 2 stories, 14 feet 6 inches x 48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Leonard Nagle, 1919 Pratt street, Philadelphia.

Residence and Store (add.), 1072 North Front street, Philadelphia, $3,200. Architect, private plans. Owner, Max Gittes, Southeast Corner Front and Wildey streets, Philadelphia. Brick, 1 story add., 9x12 feet, slag roof, pine floors, electric work. Contract awarded to Edward Sale, 705 Newmarket street, Philadelphia.

Medico Chiurgical College, 19th and Lombard Sts., Phila., $1,110,000. Architect, John T. Windrim, Commonwealth Bldg., Phila. Owner, University of Penna., 34th and Spruce St., Phila. Brick, granite, cast sone, steel, 9 stories and basement, 136x64, 60x54 feet, asphalt roof, cement and linoleum floors, elevators, metal lath, bond, ornamental iron work, painting and glazing, cork insulation, cinder block, casement sash, metal partitions, lockers. Contract awarded J. N. Gill Const. Co., City Center Bldg., Phila.

Restaurant and Store, 3120 Market street, Phila. Architect, The Ballinger Co., 12th and Chestnut streets, Phila. Owner, 20th Century Realty Co. on premises. Brick, cut stone, reinforced concrete, steel, 2 stories and basement, 125x50 feet, slag roof, cement, composition and maple floors, steam heat, electric light, metal lath, tile and marble work, rolled steel, skylights, tin clad doors, bond, floor


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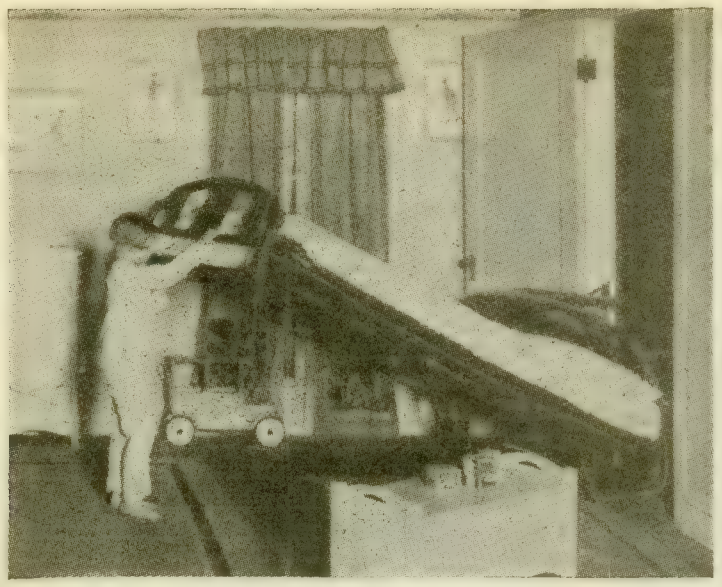
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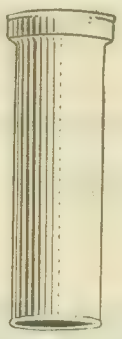
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hardener, ornamental iron work, ornamental terra cotta, metal partitions, sprinkler system, demolition, caulking. Contract awarded Haverstick & Borthwick, Schaff Bldg., Phila.

Memorial Church, Oak Road, between School Lane and Midvale Ave., Germantown. Architect, C. A. Ziegler, 1012 Walnut street, Phila. Owner, Church of the Good Shepherd, Rev. W. Y. Edwards, 4816 Wayne. Stone, brick, cut stone, 1 story and basement. 121x40 feet, shingle and copper roof, oak and cement floors, (heating and electrict reserved), metal lath, tile, and marble work, plumbing, waterproofing, bond ornamental iron work, reinforced concrete, brass pipe, wrought iron pipe. Contract awarded A. Raymond Raff Const. Co., 1635 Thompson St., Phila.

Garage, 4455 Paul St., Phila. $20,000. Architect, private plans. Owner, Louis Levin, 720 Wolf St., Phila. Brick, 1 story, 60x140 feet, slag roof, cement floors, electric work. Contract awarded to I. Farbstein, 917 Ritner St., Phila.

Coal Pockets, 1330 Belmont St., Phila. Architect, private plans. Owners, Diamond Coal Co., 1330 Belmont Ave., Phila. Concrete contract awarded to Specialty Eng. Co., Trenton and Allegheny Aves.

Pennsylvania Construction News

Junior High School, Reception Hall, Dining Hall, Infirmary, Pennsburg, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owners, Perkiomen School, M. K. Gilbert, Pennsburg, Pa. Junior High, brick, 2 stories and basement. Reception hall, 3 stories and basement, 50x100 feet. Dining hall, 3 stories and basement, 50x105 feet. Infirmary, brick and steel, 2 stories. Preliminary plans in progress.

Bank Building and Apartment Building, Llanerch, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Suburban Title & Trust Co., care of George Wilcox, Upper Darby, Pa. Brick, steel, limestone, 1 story and 2 stories. Preliminary plans in progress.

Bank Building (alts. and add.), Bristol, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Farmers' National Bank of Bucks County, J. R. Grundy, president, Bristol, Pa. Brick, stone, 1 story and basement. Plans in progress.

Residence, Pittston, Pa. Architect, E. J. Rutledge, Brooks Building, Scranton, Pa. Owner, J. Bianco, Pittston, Pa. Brick veneer, 2½ stories, 34x46 feet, tile roof, hardwood floors, electric light, tile work. Plans in progress.

Residence, Waverly, Pa. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owner, L. M. Connell, 808 Webster avenue, Scranton, Pa. Frame, 2 stories, 36x50 feet, shingle roof, pine floors, steam heat, electric light, tile work. Plans in progress.

Club House and Golf Course, Willow Grove, Pa. Owners, Huntingdon Valley Country Club, Noble, care of E. Pusey Passmore, treasurer, Noble, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Plans in progress.

High School, Kingston, Pa. Architects, Mack & Sahm, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Kingston School Board, W. H. Evans, secretary, Kingston, Pa. Fireproof. Architects selected.

Bank (add. and alts.), Wilkes-Barre, Pa. Architect, W. L. Stoddart, 50 East Forty-first street, New York. Owners, Miners' Bank of Wilkes-Barre, C. W. Laycock, president, West Market street, Wilkes-Barre, Pa. Brick, steel, stone, 13 stories, 124x152 feet. Plans in progress.

Warehouse, State street, Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Sperling Tobacco Co., 47 South Penn avenue, Wilkes-Barre, Pa. Brick, hollow tile, 3 stories, 41x92 feet, slag roof, rolled steel sash. Plans in progress.

Residence and Garage, Haverford, Pa. Architect, Paul Cret, Otis Building, Philadelphia. Owner, C. H. Geist, Packard Building, Philadelphia. Stone, 2½ stories and basement, irregular in size, variegated slate roof, oak, pine and cement floors, hot water heat, electric light, tile work, metal lath, bond, ornamental iron work, flagstone. Architect taking bids due July 2nd.

Individual Residences (8), Merion, Pa. Architect, Arthur C. Behr, 1324 North Robinson street, Philadelphia. Owner, name withheld. Stone, hollow tile, stucco, brick, half timber, 2½ stories, various sizes, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Nazareth, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Gottleib Scuman, care of architect. Brick, 2½ stories, 30x34 feet, slag roof, hardwood floors, tile work, electric light. Plans in progress.

Office Building, Hamilton street, Allentown, Pa., $3,000,000. Architects, Helmle & Corbett, 132 West Forty-second street, New York. Owners, Light & Power Co. of Allentown, Allentown, Pa. Fireproof, brick, stone, steel, 12 stories, hollow tile, elevators, safety treads, roof ventilators, metal lath, tile, marble and terrazzo work, steel sash and skylights, iron stairs, ornamental iron. Plans in progress.

High School, Swoyerville, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Swoyerville School Board, M. A. Lavin, secretary, Swoyerville, Pa, Semi-fireproof, 2 stories, 80x110 feet, slag roof, maple floors, hollow tile, safety treads, roof ventilators, rolled steel skylights, meeal lath (heating, plumbing and electric separate). Owners will be ready for bids in one week.

School, Port Griffith, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Jenkins Township School Board, J. Killian, secretary, Inkerman, Pa. Brick, 2 stories, 4 rooms, slag roof, pine floors (electric, heating and plumbing separate). Owners will take bids in about one month.

Apartment House (alts.), West River street, Wilkes-Barre, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, Thomas Brennan, care of architect. Brick, 3 stories, 80x85 eet, hardwood floors, tile work, general interior alterations. Architect will take bids in two weeks.

Nurses' Home, Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Mercy Hospital, 186 Hanover street, Wilkes-Barre, Pa. Brick, steel, 4 stories and basement, 45x160 eet, composition floors, hollow tile, elevators, steam heat, electric light, metal lath. Architect will be ready for bids about July 1st.

Residence (add. and alts.), Scranton, Pa., $22,000. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owner, L. G. Sylvester, 401 Quincy avenue, Scranton, Pa. Stucco, 2 stories, slate roof, hardwood floors, tile work, general interior and exterior alterations. Architect ready for bids due in about ten days.

Parochial School, Olyphant, Pa. Architect, Lester M. Davis, Rehrig Building, Scranton, Pa. Owners, Sts. Cyril and Methodius Roman Catholic Church, Rev. M. Guryausky, Olyphant. Brick and stone, 2 stories and basement, 50x150 feet. Architect will be ready for bids in one week.

Bank (add.), Scranton, Pa. Architects, E. H. Davis and George M. D. Lewis, Union Bank Building, Scranton, Pa. Owners, Trad-

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ers' National Bank, care of architects. Fireproof, 2 stories, 55x45 feet, slag roof, marble floors, heating extension, electric light, metal lath, steel sash, ornamental iron. Architects will be ready for bids in two weeks.

Residence and Garage, Ardmore, Pa. Architect, R. W. Pollock, 8 South Hicks street, Philadelphia. Owner, Colonel N. G. Burton, Ardmore, Pa. Stone, 2½ stones, 23x42 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans completed. Owner will build.

School, Boothwyn, Pa. Architects, Stackhouse and Donahue, 266 South Fifteenth street, Philadelphia. Owners, School District of Upper Chichester Township, Pa. Brick, cut stone, steel ,1 story and basement, 137x43 feet, wing 65x25 feet (plumbing, heating, electric separate), slag roof, pine floors, roof ventilators, metal weather strip, metal ceiling, dampproofing, metal lath, hollow metal sash, galvanized iron skylights, tin lined doors, bond, ornamental iron work, demolition, concrete block, area gratings, metal toilet partitions, painting and glazing. Architects taking bids due July 6th, 7.15 P. M. (Standard Time).

Convent, Scranton, Pa. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owners, St. Ann's Roman Catholic Church, Rev. P. Darrah, care of architect. Brick, veneer, 3 stories, 40x80 feet, slate roof, oak, pine and tile floors, vapor heat, electric light, tile and marble work, ornamental iron work. Architect taking bids due as soon as possible.

Schools (2), Strafford and Paoli, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Tredyffiian Township School Board, A. W. Supplee, Paoli, Pa. Brick, 2 stories and basement. Owners taking bids due July 14th.

Duplex House, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, J. Epstein, Allentown, Pa. Brick, 2½ stories, 34x55 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Miscellaneous School Work, Moore, Pa. Owners, Borough School District, Prospect Park, J. Leslie Galloway, Moore, Pa. Alterations to Lincoln School, enclosing toilet facilities, reconstruct areaways, painting, grading and sodding, Washington School Grounds. Owners taking bids due July 6th, 7 P. M. (Standard Time).

Supplies, Prospect Park, Delaware County, Pa. Owners, School District of Prospect Park, J. Leslie Galloway, secretary, 1114 Lafayette avenue, Moore, Pa. Furnishing of stationery, desks, supplies, etc., for school year. Owners taking bids due July 6th, 7 P. M.

Electric Traffic Signal, Norwood, Delaware County, Pa. Owners, Council of Norwood, J. A. Kimber, 619 Senaca avenue, Norwood, Pa. Owners taking bids due July 15th at noon. Bond, $250.

Residence, Ashley, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owner, Miss Mary Lavin, 259 Scott street, Ashley, Pa. Brick, 2½ stories, 39x39 feet, composition roof, hardwood floors, vapor heat, electric light, tile work. Owner taking bids.

Residence, Hazleton, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, F. McHugh, Hazleton, Pa. Frame, stucco, 22½ stories, 30x45 feet, slate roof, hardwood floors, electric light, tile work. Owner taking bids.

Club Building, Lester, Pa. Architect, J. B. Thompson, 34 South Seventeenth street, Philadelphia. Owners, Lester School Association, Lester, Pa. Brick, structural steel, 2 stories, 60x32 feet, wing 20x20 feet, slag roof, maple floors, steam heat, electric light. Plans completed. Owners will build and will be ready for sub-bids in about two weeks.

Residence, Spring street, Everett, Pa., $20,000. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, name withheld. Brick, stone, 2½ stories, 40x25 feet, 20x20 feet, shingle or slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will be ready for bids in one week.

Residence, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Cedar Crest College, care of architects. Brick, 2½ stories, 40x50 feet, Spanish tile roof, rubber and tile floors, hot water heat, electric light, tile work. Architects taking bids due July 1st.

Barn, Stable and Garage, Unionville, Chester County, Pa. Architect, private plans. Owner, William E. Carter, on premises. Frame, steel, 1 story, 50x70 feet, wing 60x30 feet, shingle roof, pine floors, plumbing, electric light, metal lath, ornamental iron work, demolition, concrete, cement. Owner taking bids due as soon as possible.

Fire House and Hall, Springfield, Delaware County, Pa. Architect, James N. Clarke, Jr., Springfield, Delaware County, Pa. Owners, Springfield Fire Co., H. S. Pancoast, president, Springfield, Delaware County, Pa. Low bidder: J. Grimes, Clifton, Delaware County, Pa., $61,000.

Residence (alts. and add.), Radnor, Pa. Architect, R. Brognard Okie, 308 South Smedley street, Philadelphia. Owner, Mr. Andrew Van Pelt, on premises. Demolition, stone work, brick work, cement and concrete, carpentry and mill work, asbestos shingle roof, oak floors, maple floors, plastering, metal lath, painting, tile work, rubber tile floors, cork tile, iron work, hot water heat, plumbing. Architect taking bids due July 3rd.

Residence, Springfield Township, Montgomery County, Pa. Architect, E. B. Gilchrist, 1618 Latimer street, Philadelphia. Owner, Frederic L. Ballard, Esq., care of architect. Stone, limestone, 2½ stories and basement, 75x40 feet, shingle roof, oak and pine floors, cement floors, plumbing, hot water heat, electric light, tile, metal lath, flagstone. Architect taking preliminary bids.

Hospital, Coatesville, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Coatesville Hospital, Coatesville, Pa. Architects taking bids due July 6th.

Market Street Bridge, Wilkes-Barre, Pa. Engineer, Benjamin H. Davis, Whitehall Building, New York City. Owners, Luzerne County, Harry T. Butts, Controller, Court House, Wilkes-Barre, Pa. Removing present bridge, concrete, steel, 93 feet wide, 1,382 feet long, (12) arch spans, (1) 50 feet, (5) 82 feet, (1) 100 feet, (1) 110 feet, (4) 120 feet, across Susquehanna River in City of Wlikes-Barre. Owners taking bids due July 21st at 2 P. M. Deposit of $100 required (refunded). Certified check for $50,000 (fifty thousand dollars) required.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Low bidders on work received June 22nd:

Warren County, R-88, S-7-8, Broken Straw and Conewago Townships. One course reinforced concrete. Tover Brothers, Warren, Pa., $21,493.14.

Armstrong County, R-203, A-3295, Manor, Bethl and Gilpin Townships. One course reinforced concrete. Charles Winters Const. Co., Butler, Pa., $287,169.98.

Lebanon County, R-140, A-4064, East Hanover Township. One course reinforced concrete. D. L. Risser, Lebanon, Pa., $75,604.15.

Crawford County, R-448, A-4077, Steuben and New Richmond Townships, Townville Borough. One course reinforced concrete. J. C. Devine Co., Alliance, Ohio, $127,871.19.

Beaver County, R-243, Section 3-A, Glasgow Borough, Ohio Township. One course reinforced concrete. Rinehart Brothers, East Liverpool, Ohio, $101,487.95.

Schuylkill County, R-339, Section 2, A-3980, Hubley Township. One course reinforced concrete. Swanger & White, Lebanon, Pa., $114,-362.50.

Perry County, R-122, A-4039, Tyrone and Madison Townships, W. B. surface course. J. H. Hutchison, Altoona, Pa., $117,550.52.

Low bidders on work opened June 23rd:

Westmoreland County, Derry Township. One course reinforced concrete. M. Bennett & Sons, Indiana, Pa., $20,303.45.

Westmoreland County, A-4010, Hempfield and Penn Townships. One course reinforced concrete. Payne-Yost Const. Co., Pittsburgh, Pa., $90,667.33.

Northampton County, A-3908, East Allen and Moore Townships, Chapman Borough. One course reinforced concrete. Smith-Fenstermacher Co., Allentown, Pa., $150,138.58.

Montgomery County, A-3961, Cheltenham, Upper Dublin, Whitemarsh Townships. One course reinforced concrete. Dalton Brothers, Paoli, Pa., $148,842.80.

Westmoreland County, R-480, A-4089, Derry Township. One course reinforced concrete. Gray Brothers, Youngstown, Ohio, $40,192.60.

Warren County, A-1833, 1788, Bear Lake Borough, Freehold Township. W. B. macadam

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surface course. J. C. Devine, Alliance, Ohio, $50,450.87.

Delaware County, R-130, S-A, A-3692, Prospect Park and Morton Boroughs, Ridley and Springfield Townships. One course reinforced concrete. Union Paving Co., 123 South 21st street, Philadelphia, $191,479.19.

Beaver County, A-3955, 4247, South Heights Borough, Hopewell Township. One course reinforced concrete. W. S. Morrison, New Brighton, Pa., $111,990.85.

Somerset County, R-50, A-3137A, Lower Turkeyfoot Townshsip, Confluence Borough. One course reinforced concrete. W. H. Wilkey, Uniontown, Pa., $55,949.60.

Allegheny County, A-3986, Glassport Borough. One course reinforced concrete. F. W. Scott & Co., Hays, Pa., $162,641.10.

Public School, (alts. and add.), E. Lansdowne, Pa. Architect, J. C. S. Fernald, 5533 Wyalusing Ave., Phila. Owner, School Board of East Lansdowne, Pa. Brick, concrete steel, maple floors, hardware, (plumbing, painting, 1 add. story, 50x40 feet, Bangor slate roof, and glazing, heating add.) electric light, metal lath, shoring. Owner taking bids due July 2nd.

School, Completion. Wallingford, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Phila. Owner, School Board of Nether Providence, J. Hoover, Sec'y. Low bidders: D. A. McClelland, Drexel Bldg., Phila., $9,077. Plumbing, Burton L. Marker, Chester, Pa., $974. Heating, Wm. P. Fowden, Chester, Pa.

Pennsylvania Contracts Awarded

High School, Northampton, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Northampton School Board, Northampton, Pa. Brick, steel, 2 stories, 115x200 feet, composition roof, composition and hardwood floors, safety treads, metal lath. steel sash, skylights, iron stairs (heating, electric and plumbing separate bids). Contract awarded C. W. Strayer, Harrisburg, Pa.

Residence, Berwyn, Pa., $12,000. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, Miss Mary A. Bair, Berwyn, Pa. Stone, 2½ stories and basement, irregular in size, slate roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Contract awarded Turnbull & Cornell, 15 South Twenty-first street, Philadelphia.

Office Building, Bryn Mawr, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Philadelphia Suburban Water Company, Bryn Mawr, Pa. Reinforced concrete, cut stone, brick, steel, 2 stories and basement, 75x85 feet, John Mansville roof, cement and mastic floors, hollow tile, painting and glazing, metal lath, tile, marble and terrazzo work, fire doors, hollow metal sash, granite, limestone, steel partitions, pyrobar tile roof. Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia.

Residence (alts. and add.), Fort Washington, Pa. Architect, Ralph White, Pennsylvania Building, Philadelphia. Owner, Henry McAdoo, Fort Washington, Pa. Frame and stucco, 2½ stories and basement, 19x18 feet, shingle roof, oak and pine floors, electric light, plastering, mill work, carpentry. Contract awarded C. C. Eddleman, 1627 Sansom street, Philadelphia.

Residence (alts. and add.), Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, J. E. Snyder, Cynwyd, Pa. Painting, carpentry tnd mill work, plumbing, hot water heat, electric light. Contract awarded H. E. Grau Co., 1707 Sansom street, Philadelphia.

Residence, Wynnewood, Pa. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Clarence L. Summers, care of architect. Stone, 2½ stories and basement, 52x60 feet, shingle roof, oak, pine floors, hot water heat, electric light, metal lath, tile work, plumbing, ornamental iron work. Contract awarded J. R. Erbe, 2551 North Sixth street, Philadelphia.

Central Heating Plant, Laurelton, Pa. Architect, George S. Idell, Corn Exchange Building, Philadelphia. Owners, Laurelton State Village, Dr. H. H. Wolfe, Laurelton, Pa. Contract awarded on building and coal trestle, F. D. Kessler, Northumberland, Pa., $35,475.

Residence (alts. and add.), Garage (7-car), Bryn Mawr, Pa., $75,000. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owner, Walter C. Janney, Bryn Mawr, Pa. Stone, 2½ stories, 40x30 feet, slate roof, cement floors (plumbing, heating and electric reserved). Contract awarded H. H. Burrell & Son, 206 South Quince Street, Philadelphia.

Residence and Garage, Wallingford, Pa. Architect, William W. Price, 119 South Fourth street, Philadelphia. Owners, Mr. and Mrs. Charles D. Mitchell, Wallingford, Pa. Stone, 2½ stories and basement, 100x35 feet, irregular, asbestos shingle roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work, flagstone. Contract awarded Herbert Walton, Moylan, Pa.

Store and Apartment, Pittston avenue, Scranton, Pa. Architect, A. J. Ward, County Bank Building, Scranton, Pa. Owner, Andrew Brown, 1418 Pittston avenue, Scranton, Pa. Brick veneer, steel, 3 stories, 39x72 feet, slag roof, pine floors, hollow tile, sidewalk elevator,iron stairs, area gratings, vault lights, plate glass, cement work, tile work, metal lath. Contract awarded to Thomas Bisignani, 2012 Pittston avenue, Scranton, Pa.

Residence (alts. and add.), Wister road, Ardmore, Pa. Architects, Webber & Wurster, 1530 Locust street, Philadelphia. Owner, Gilbert Mather, on premises. Stone work, hot water heat, electric work, concrete work, carpentry and mill work, plumbing, metal weather strip, sheet metal work, shingle roof, slag roof, brick work, tile floors. Contract awarded McBride Const. Co., Fuller Building, Philadelphia.

Garage (43-car), Madison avenue, Scranton, Pa., $75,000. Architect, private plans. Owners, Glen Alden Co., Jefferson avenue and Linden street, Scranton. Fireproof, steel, brick, terra cotta, 1 and 2 stories, 84x146 feet, concrete roof and floors, steam heat, electric light, steel sash. Contract awarded to Const. Service Co., Town Hall Building, Wilkes-Barre, Pa.

Duplex House, Academy street, Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, M. J. Clark, 137 South Main street, Wilkes-Barre, Pa. Frame, stucco, 2½ stories, 28x60 feet, asphalt roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to Anthony Grosek, Plains, Pa.

Morris School, West Scranton, Pa., $109,000. Architect, F. J. Miller, Brooks Building, Scranton, Pa. Owners, Scranton School Board, J. D. Hughes, secretary, Scranton, Pa. Brick, 2 stories and basement, 12 rooms, hardwood floors, hollow tile, roof ventilators, safety treads, metal weather strip, metal ceilings. Contract awarded to Alimo Brothers, Pittston, Pa. Heating to H. N. Gardner, 920 Green Ridge avenue, Scranton, Pa. Plumbing to J. F. O'Hora, 1409 North Washington avenue, Scranton, Pa. Electric to Eiden Electric Shop, 601 Pittston avenue, Scranton, Pa.

Madison School, West Scranton, Pa. Architect, F. J. Miller, Brooks Building, Scranton, Pa. Owners, Scranton School Board, J. D. Hughes, secretary, Scranton, Pa. Brick, 2 stories and basement, 12 rooms, hardwood floors, hollow tile, roof ventilators, safety treads, metal weather strip, metal ceilings. Contract awarded to Barrett Const. Co., Bowman Building, Scranton, Pa. Heating to H. N. Gardner, 920 Green Ridge avenue, Scranton, Pa. Plumbing to J. F. O'Hora, 1400 North Washington avenue, Scranton, Pa. Electric to Eiden Electric Shop, 601 Pittston avenue, Scranton, Pa.

Parochial School, South Main street, Scranton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, St. John the Baptist German Roman Catholic Church, Scranton, Pa. Semi-fireproof, 2 stories and basement, 8 rooms, Barrett roof, pine floors. Contract awarded to L. Caputo, 1213 South Main street, Scranton, Pa.

Residence and Garage, Collegeville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Dr. A. R. Saylor, Main street, Royersford, Pa. Brick, 2 stories, 32x48 feet, asbestos roof, oak and maple floors, hot water heat, electric light, tile work, steel and

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wood sash, fire doors. Contract awarded to W. A. Backer, Gay street, Royersford, Pa.

Bridge, Cynwyd, Pa. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. Reinforced concrete, 70-foot span. Contract awarded Kaufman Const. Co., Pennsylvania Building, Philadelphia.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Butler County, R-75, A-4040, Eau Clair and Cherry Valley Borough, Venango Township, 11,310 feet. One course reinforced concrete. Contract awarded to Indiana Const. Co., Indiana, Pa., $85,048.93.

Beaver County, A-3788, New Sewickley Township, Marion Township. One course reinforced concrtee. $245,148.34. Contract awarded to R. H. Cunningham & Sons, Turtle Creek, Pa.

Berks County, A-3842, S-2, Ruscomb Manor and Rockland Township. Grading and drainage. $46,974.35. Contract awarded to Smith-Fenstermacher, Altoona, Pa.

Beaver County, R--3783, New Sewickley Township. One course reinforced concrete. Contract awarded to O. B. Bracht, Titusville, Pa., $121,067.11.

Susquehanna County, R-174, Section 1, Clifford and Lenox Townships. One course reinforced concrete. Contract awarded to W. D. Fote, Olean, N. Y., $2927,405.92.

Stadium, College Grounds, Chester, Pa. Architects, Savery & Scheetz, Stephen Girard Bldg., Phila. Owner, Penna. Military College, H. H. Ward, Chester, Pa. Brick, limestone, steel, reinfroced concrete, 1 story, 327x46 feet, corrugated iron roof, crystal asphalt roof, cement floors, hollow tile, painting and glazing, rolled steel sash, ornamental iron work, iron fence. Contract awarded F. M. Harris Co., 1520 Parish St., Phila.

Hotel, Allentown, Pa. $2,000,000. Architects, Ritter & Shay, Packard Bldg., Phila. Owner, American Hotel Realty Company, Allentown, Penna. Brick, reinforced concrete, granite, steel, 14 stories and basement and mezzanine, 229x91 feet, slag, composition, tile roof, cement floors, hollow tile, elevators, roof vents, plumbing, water and dampproofing, archt. terra cotta, metal lath, tile, marble and terrazzo work, hollow metal doors, bond, bronze, refrigeration, laundry equipment, composition floors. Contract awarded Roberts & Roller, 1700 Walnut St., Phila.

New Jersey Construction News

Church, alts. and add.), Audubon, N. J. Architect, Bureau of Architects, M. E. Church, 17th and Arch Sts., Phila. Owner, Audubon M. E. Church, on premises. Brick, stone, cut stone, concrete, steel, 1 story and basement, 66x77 feet (plumbing, heating and electric reserved), built up roof, asbestos shingle roof, granite, cement and pine floors, metal lath, hollow metal sash, kalamein doors, bond, shoring, water and dampproofing, demolition, steel partitions, cast stone cinder block, bluestone, flagstone, iron gratings. Architect taking bids due July 6th, 9 A. M.

Bank, Margate City, N. J. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owners, Margate Trust Co., care of architect. Brick, steel, stone, 2 stories, 45x80 feet, slag and tile roof, tile, marble and concrete floors, electric light, metal lath, tile work, bank fixtures, ornamental iron or bronze, metal window guards, hollow tile. Plans in progress.

School (add.), Wildwood, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J., and L. H. Boyer, Woolworth Building, Wildwood, N. J. Owners, Board of Education, William Todd, secretary, Wildwood, N. J. Brick, 3 stories, 124x137 feet, slag roof (heating, plumbing, electric and ventilating separate). Revised plans in progress.

School, Sixth and Vine streets, Camden, N. J. Architect, George I. Lovatt, 223 South Sydenham street, Philadelphia. Owners, Holy Name Roman Catholic Church, Rev. J. Whelan, Camden, N. J. Stone, cut stone, reinforced concrete, brick, steel, 3 stories and basement, 122x68 feet (plumbing, heating, electric reserved), variegated slate roof, cemnt and maple, pine floors, metal window guards, metal lath, marble and terrazzo work, hollow metal doors, iron stairs, ornamental iron work, Aquabar waterproofing, area gratings, concrete blocks, granite, bluestone, cast stone, sans-slip tread material. Architect taking bids due July 6th.

Bank, South Broad and Liberty streets, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton. Owners, Chambersburg Trust Co., care of architect. Brick, stone, steel, 1 story, tile and marble, vault, bronze, ornamental iron. Architect will be ready for bids at end of the week.

Cottage, Pleasantville, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Louis Champion, Pleasantville, N. J. Brick, 2 stories, 28x50 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids.

Office Building, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, New Jersey Manuafcturers' Association, care of architect. Reinforced concrete, steel, brick, 3 storis and basemnt, 50x75 feet, built-up roof, linoleum floors, hollow tile, dumb waiters, safety treads, vault doors, steel stairs, iron work, hollow metal doors, metal lath, vapor heat, electric light. Architect taking bids due July 1st.

Store and Apartment Building, 25 South Kentucky avenue, Atlantic City, N. J. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, Joseph Myers, Connecticut avenue, Atlantic City, N. J. Brick, steel, 3 stories, 35x81 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due July 10th in his office, 313 Oriental avenue, Atlantic City, N. J.

Hospital for Insane (add.), New Lisbon, N. J. Architect, Herbert O. Ziegler, 1012 Walnut street, Philadelphia. Owners, Board of Freeholders, Burlington County, N. J. Low bidders: Ralph S. Herzog, 10 South Eighteenth street, Philadelphia, $93,700; J. M. Yardley, 1700 Walnut street, Philadelphia, $106,735.

School, Harrisonville, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Harrisonville Township School Board, Harrisonville, N. J. Lowest bidders: A. Russell Daub, Harrisonville, N. J., $11,000. Electrical work, A. Russell Daub, Harrisonville, N. J., $209. Heating, C. A. Voelker, Glassboro, N. J., $3,249.

Rotd Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Sussex County, Route 8, Section 8, Sussex-Hamburg. Earth excavation, hard rock excavation, double line reinforced concrete pavement, 2 small bridge. Certified chck, 10 per cnt. Deposit, $10. Owners taking bids due July 12th, at 11 A. M. (Eastern Standard Time).

Bridge, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Burlington and Camden Counties, Route No. 2, over Pensauken Creek, at M. P. 3.6. Reinforced concrete, steel, timber piling, foundation excavation, piling, reinforcing rods, borrow, concrete paving, clear span 64 feet, clear roadway 40 feet, (2) sidewalks, half-through plate girders with transverse plate girder floor beams. Certified check, 10 per cent. Deposit, $10. Owners taking bids due July 12th at 11 A. M. (Eastern Standard Time).

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Reconstruction of (5) bridges on Route 7, Sections 6 and 7. Bridge at M.P 2.5 over Bentley's Brook, Middlesex County. Bridge at M.P 5.0 over Millstone River, Monmouth County. Bridge at M.P. 7.5 over Stillhouse Brook, Monmouth County. Bridge at M.P. 8.0 over Gander Brook, Monmouth County. Bridge at M.P. 8.1 over Branch of Gander Brook, Monmouth County. Reinforced concrete decks on concrete abutments. Concrete reinforcing steel, structural steel, foundation excavation, timber piles. Owners taking bids due July 7th at 11 A. M. (Eastern Standard Time). Deposit, $10. Certified check, 10 per cent.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Trenton. Camden County, R-3, Section 11A, widening White Horse Pike; lowest bidder, M. Staub, Pitman, N. J., $303,840. Removal of bridge over Raritan River between Perth Amboy and South Amboy, Middlesex County, N. J.; lowest bidder, Gust Wickberg, Perth Ambay, N. J., $78,000. Bridge across Cooper River on Camden Connecting Road; lowest bidder, Brann & Stuart, Commercial Trust Building, Philadelphia, $118,847.41.

Building, (add.), Mickle St., near 5th, Camden, N. J., $6,000. Architect, A. B. Gill, 328 Market St., Camden, N. J., Owner B. H. Howell, care of architect. Concrete block and brick, 2 stories, 20x35 feet, slag roof, pine floors, electric light. Plans in progress.

Service Station, Haddon Ave. and Line St., Camden, N. J., $2,500. Architect, A. B. Gill. Owner, name withheld. Concrete block and brick, 1 story, 20x22 feet, slag roof, cement floor, electric light. Plans in progress.

New Jersey Contracts Awarded

Apartment House, Pacific and Massachusetts avenue, Atlantic City, N. J. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, Finance Holding Co., care of S. Friedman, Far Rockaway, N. Y., and Bernard Dork, Stock Exchange Building, Philadelphia. Brick, steel, concrete, 16 stories. Contract awarded United State Const. Co., 614 Stock Exchange Building, Philadelphia. Plans in progress.

Theatre and Stores, Hightstown, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, John and Mary Hight Amusement Co,. Trenton, N. J. Brick, hollow tile and steel, 2 stories, 50x135 feet, 50x70 feet, slag roof, cement and tile floors, roof ventilators, steam heat, electric light, metal lath, rolled steel sash, fire doors, ornamental iron, concrete stairs. Contract awarded to Scalci Mancuso, Trenton, N. J.

Bank (alts. and add.), Princeton, N. J. Architect, W. A. Kleman, First National Bank Building, Trenton, N. J. Owners, Princeton Bank & Trust Co., William Howe, president, care of architect. Steel, concrete floors, elevators, tile and marble, steel stairs. Contract awarded to J. M. Stillwell, Princeton, N. J.

Residence, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, Benjamin Woodward, care

of architect. Brick, 2½ stories, 32x42 feet, slate roof, hardwood floors, hot air heat, electric light, tile work. Contract awarded to S. W. Mather & Son, 300 Maple avenue, Trenton, N. J.

Bank Building (add.), 2616 Federal street, Camden, N. J. Architect, J. C. Jefferis, 312 Market street, Camden, N. J. Owners, East End Trust Co., on premises. Brick, steel, limestone, 1 story, 40x40 feet, slag roof, tile and marble, steel work, electric light. Contract awarded to J. W. Draper, 436 Haddon avenue, Camden, N. J.

Garages (11), Woodland avenue, East of Eighth street, Camden, N. J. Architect, private plans. Owner, H. E. Harper, Camden, N. J. Brick, 1 story, 110x20 feet, slag roof, cement floors, electric work. Contract awarded Bennett-McLaughlin, 3434 Sansom street, Philadelphia.

Store Building, Camden, N. J. Architect, Harold Holmes, S. S. Kresge Co., Detroit, Mich. Owners, S. S. Kresge Co., Detroit, Mich. Brick, steel, cut stone, 2 stories and basement, 155x59 feet, slag roof, cement and maple floors, metal weather strip, shoring, integral waterproofing, ornamental iron work, metal bulks, bond, hollow metal sash, kalamein doors, tile, marble and terrazzo work, bronze grills, metal lath, electric light, steam heat, plumbing, limestone, granite. Contract awarded Fred Elvidge & Son, 5522 Germantown avenue, Philadelphia.

County Asylum (add.) to Female Ward, Northfield, N. J., $112,232. Architect, S. Hudson Vaughn, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic County Board of Freeholders, Atlantic City, N. J. Fireproof, 3 stories, 32x109 feet, slate roof, composition floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, ornamental iron, iron stairs, bond, kalamein doors, steel sash, tile and marble, metal lath (heating, plumbing and electric separate). Contract awarded to A. B. Bowen, 1 South Delancy Place, Atlantic City. Plumbing to L. J. Hunt, Pleasantville, N. J. Heating to D. H. Moore, 1207 Commerce avenue, Atlantic City, N. J. Electric to Charles Miller, 180 Westminster avenue, Atlantic City, N. J.

Residence (alts. and add.), Edgewater Park, N. J. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Joseph C. Gill, Edgewater Park, N. J. Stone, 2 stories, 18x20 feet, tin roof, tile floors, mill work, plumbing, iron conductors, painting and glazing. Contract awarded C. S. Moses, Edgewater Park, N. J.

Curb and Sidewalks, National Park, N. J. Engineer, J. Owen Carter, Cooper street, Woodbury, N. J. Owners, Borough Council of National Park, William H. Zaun, Borough Clerk, National Park, N. J. One course cement concrete curb and sidewalk on variuos streets. Contract awarded to George C. Kindle, Pitman, N. J., $85,084.50.

Garage, Sixth and Asbury avenue, Ocean City, N. J. Architect, V. B. Smith, Atlantic City, N. J. Owner, Clayton Roberts, Ocean City, N. J. Brick, steel, 1 story, 100x60 feet, slag roof, cement floors, rolled steel sash, ornamental iron work (plumbing, heating, electric reserved). Contract awarded D. A. McClelland, Drexel Building, Philadelphia.

Church, Northwest Corner Thirty-sixth and Merrill avenue, Camden, N. J., $15,000. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Westminster Presbyterian Church, on premises. Block and stucco, 1 story, 34x58 feet, slate roof, pine and cement floors, steam heat, electric light. Contract awarded to Thomas C. Tolbert, 5503 Westfield avenue, Camden, N. J.

Residences (3), 1011-13-15 Jackson street, Camden, N. J., $15,000. Architect, Harold Allen, 526 Stevens street, Camden, N. J. Owner. Joseph Zielinski, Camden, N. J. Brick, 2 stories, 14 feet 4 inches x 50 feet, slag roof, hot water heat, electric light, pine floors. Contract awarded to Barney Poduszczak, 1628 Kolo street, Camden, N. J.

Residences (2), 688-90 Central avenue, Camden, N. J., $10,000. Architect, private plans. Owners, A. Krukauskas and J. Lashowski, Camden, N. J. Brick, 2 stories, 16x58 feet, slag roof, pine floors, hot air heat. Contract awarded to A. Wacnick, 907 Atlantic avenue, Camden, N. J.

Residence, 3139 Waldorf avenue, Camden, N. J., $5,500. Architect, Charles A. Mohrfeld, Palmyra, N. J. Owner, Laura Wisekuhn, Camden, N. J. Block and stucco, 2 stories, 18x42 feet, slag roof, hot water heat. Contract awarded to Gustav F. Lingsch, 2 North Twenty-seventh street, Camden, N. J.

Miscellaneous Construction News

Apartment House, location withheld. Architect, R. W. Pollock, 8 South Hicks street, Philadelphia. Owner, name withheld. Brick, steel, concrete, 4 stories, 60x100 feet. Plans in progress. Ready for bids about July 15th.

Residence (alts. and add.), Yadkin River, Winston-Salem, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, W. N. Reynolds, care of architect. Stone. Preliminary plans in progress. Too early for details.

Cottage, Roaring Gap, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, W. N. Reynolds, care of architect. Stone, 2½ stories. Plans in progress. Too early for details.

Residence and Garage, Yadkin River, Winston-Salem, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, Robert E. Lasater, care of architect. Brick. Preliminary plans in progress.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Owners taking bids due July 14th at 2 P. M. Depoit, $2.00. Certified check, 10 per cent.

Contract 68, Cedar Neck School toward Milford, 2.10 miles. Clearing, grubbing, excavation, borrow, broken slag base course for secondary roads, corrugated metal pipe, R. C. pipe.

Contract CN33, Townsend-Dexters Corner, 4.2 miles. Clearing, grubbing, excavation, borrow, broken slag base course, corrugated metal pipe, R. C. pipe, timber for structures.

Contract CS54, Harbeson-Indian Mission, 4.71 miles. Clearing, grubbing, excavation, borrow, cement concrete pavement, cement concrete pavement (slag aggregate), Class A concrete, reinforcement, corrugated metal pipe, R. C. pipe, wood shoulder curb.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Low bidders:

Contract CN31, New Castle-Wilmington, 3.37 miles. Stewart & Donohue, Wilmington, Del., $112,995, $112,295.

Contract CK26, Magnolia-Canterbury, 5.13 miles. George & Lynch, Dover, Del. Stone (metal), $140,705; non-metal, $139,079; slag (metal), $135,905; non-metal, $134,279.

Contract CS53, Bay Shore-Lewes, 0.5 mile. W. W. Truitt, Lincoln City, Del. Stone, $15,643.75; slag, $15,118.75.

(Continued from page 404)

mand. In short, a serious depletion of our oil supply is inconceivable in view of the known facts and the avenues of relief which have been opened up in part and which are susceptible of nearly unlimited development."

CORRECTLY APPLYING THE LOCK

By B. A. McCuen

It is generally known that misapplication of a lock set results in unsatisfactory operation. Too often the source of the difficulty is not known by the users with the result that the hardware receives the blame.

A lock that is correctly applied will work with the same ease and smoothness of action as when it passes final inspection at the factory. Installation, then, is a matter of no small importance.

ACORN TILE COMPANY
Tile Work
INTERIOR AND EXTERIOR
CLEMENTON, N. J.
Mosaic Ceramic and Quarry Tile Floors
Bell Phone—Laurel Springs 112 R 2

TILE
MARBLE
MOSAIC
CERAMICS
Camden Tile Co.
1484 Bradley Avenue
CAMDEN, N. J.
BELL PHONE
CAMDEN 3827 W

GENERAL INSURANCE | SMITH-AUSTERMUHL CO. | SURETY BONDS
5th and Market Streets, Camden, N. J.
BELL PHONE, CAMDEN 3210 KEYSTONE, CAMDEN 3147

Inaccurate measurements are usually responsible for the binding which impedes free-working of the lock. Complicated methods for obtaining the center at which to bore hole for cylinder, knob, thumbknob or thumbpiece instead of increasing the degree of accuracy bring about a negative result and hence improper operation after lock is installed.

This difficulty is encountered all in addition to the time lost in figuring, measuring and calculating. Small items of time, perhaps, but on extensive jobs where many lock sets are installed, the accumulated loss is considerable.

Actually the application of a lock set is a very simple task. These few simple instructions will be helpful to those who

Just as in the case of every building material and specialty, poor workmanship reflects unfavorably on the quality of the product. Good hardware receives thorough factory inspection, but its manufacturers cannot follow it to its final installation. When locks, hinges and similar hardware arrive on the job their application is too often left entirely to the workmen. Every builder should make sure that an adequate equipment of tested hardware is provided and installed correctly.

are seriously concerned with the problem. There are many whose methods are similar or at least equally as good. These men as well as those who are having poor luck in making satisfactory installations will find these rules simple and positive means of turning out a good job.

First, mortise the lock into edge of door at the center of its thickness and at specified distance from floor. Then, remove lock from door and on the side that corresponds to inside of door, place a square horizontally across it, so that it passes through center of hub for thumbknob. Make a light pencil mark on face of lock where the square intersects.

Next, slide square downward until it is on a line with center of hub for the knob and mark location on face of lock. On the opposite face, line square up with the bottom of the trip for the thumbpiece on the lower edge of the lock case. Mark location on face.

Measure the distance from the face of lock to the center of cylinder and draw a vertical line at this distance from the edge of door on both sides.

Now you may replace lock in door and with the square draw horizontal lines from each of the marks on the face of lock, so that they intersect the vertical lines.

On outside of door, using the upper intersection as a center, bore an 1¼ in. hole to the mortise only. Bore a ⅝ in. hole to the mortise at the lower point and chisel to the proper size and shape. Take care that the opening does not extend beyond the top-plate of handle.

Finally on the inside of door bore a ⅜ in. hole at the upper point and a ⅝ in. hole at the lower. These holes to extend to the mortise only.

Building Age and Natural Builder.

TENDENCY TOWARD BAKERY CONSOLIDATION OFFERS INCREASED FIELD FOR ELECTRICAL POWER COMPANIES

The recent announcement of a consolidation of several large baking companies with offices and plants in several of the larger cities has forcibly directed the attention of the electrical industry toward the increased utilization of electrical power in these plants.

In this respect, the use of air and electricity go hand in hand in the modern bakery. Without either, it is doubtful if the enormous progress accomplished in the last ten years when bakery-made bread has increased from 10 to 60 per cent. of the total product consumed, would have taken place.

As a manufacturing process, and the making of bread has indeed become a mechanical production job, the use of air, water and chemical formulas has become of vast importance in the baking industry. Every operation connected with the modern bakery is the result of scientific study, from the weighing of the flour, water, lard and other ingredients, to the wrapping of the loaves in oiled tissue and the mechanical work is minutely regulated.

Records indicate that it was sixteen years ago that the first consolidation of large bakeries was accomplished when the General Baking Company brought under one organization, plants in New Orleans, Toledo, Buffalo, Washington, Providence, Canton, Cleveland, New York and other large cities. The organization of this large company immediately affected one major operation of interest to electrical power companies and other manufacturers—the standardization of equipment and commodities used. This standardized production has greatly increased the consumption of electrical current in our larger cities.

Generally speaking, there are four major operations in which the use of electrical power has been stabilized in the modern bakery. These include the operation of various types of fans, the operation of humidifying apparatus, (a very important feature in all modern baking plants) the use of current in various mechanical operations, and the consumption of electrical power in the operation of the huge ovens.

Air is most essential in the large modern bakery. Ventilating fans, which remove the fumes from the baking processes, and provide fresh air for employees, at the same time remove the heated air from the baking rooms. The number of fans for this purpose and the current consumed depends primarily upon the size of the baking plant and the output, but this feature constitutes an important feature in the consumption of electrical power. Another use of fans in the baking business, particularly interesting to electrical companies, is in oven cooling. When the day's baking is completed, it is desirable to remove all remaining heat from the ovens by means of electrically operated fans and, in its stead, substitute fresh air during the period the ovens remain idle.

The successful baking of bread on a large scale, where thousands of loaves are produced in an hour, demands the most delicate means of humidification. Scientists claim that it is in this feature, plus the fact that large units can operate more cheaply than can the home oven, that has caused the modern bakery to supplant the kitchen process. There is not a modern bakery that does not employ humidifying or air conditioning processes in preparing its product.

An interesting illustration of this feature is found in the new Holland Bread Company plant in Toledo, Ohio, where a large air washing machine provides exactly the correct amount of moisture in the oven air for the best results. The air is blown through this air washer by electrically operated fans and then driven into the ovens to insure fresh bread.

Because of its cleanliness and dependability, electrical power has been almost universally adopted for mechanical operations in the modern bakery. Huge mixers, that never get tired at the elbows, conveyors for dough and finished loaves, lighting systems and mechanical wrappers are all operated by electrical power.

The maintenance of a constant heat is necessary in the preparation of our bread and other baked dainties. Hence, electrical ovens are standard in most modern bakeries where thermostatically controlled ovens bake out thousands of loaves on an exact schedule each hour.

The manager of a branch of one of the largest bread companies recently declared that there is not a single operation in their plant that is not directly operated by or influenced by electricity. And inasmuch as human hands, except in loading and unloading the wagons, never touch the product, the far-reaching effect of electricity in the baking industry is easily seen. It is a fact that the bread baking business is one of the cleanest production industries known, and to this end, the use of electricity has contributed considerable assistance. It is safe to say that, without electrical current and various applications of air, the baking industry would still be confirmed to the thirty or more million kitchens in the United States.

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
rchitectural Cast Cut Stone Co.....Westmont, N. J.

ARCHITECTURAL IRON WORK
uaker City Art Metal Works,
2445 N. Second St., Phila.

ARTESIAN WELLS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
Veber, F., Co. .....125 S. 12th St., Phila.
Veil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
lue Print Shop.....1520 Sansom St., Phila.
obbins, Chas. H., Co.....1729 Sansom St., Phila.
Veber, F., Co. .....125 S. 12th St., Phila.
Veil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER.
lue Print Shop.....1520 Sansom St., Phila.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
Veber, F., Co. .....125 S. 12th St., Phila.
Veil, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS.
ivezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
ox, Janeway, & Co..Real Estate Trust Bldg., Phila.
. M. & C. M. Siner..Church and Tacony Sts., Phila.
xcelsior Brick & Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving).
etcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
itchell Bros. .....2125 Race St., Phila.
eiser, M. J. .....4238 Old York Road, Phila.
oseph Rotornado.....4740 Milnor St., Phila.

BUILDERS' SUPPLIES.
ervice Supply Corporation,
20th and Venango Sts., Phila.
he Van Sciver Corporation,
The Parkway at 24th St., Phila.
Vest Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
uskey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
rchitectural Cast Cut Stone Co. ...Westmont, N. J.
ineland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
he Van Sciver Corporation.
The Parkway at 24th St., Phila.
Vest Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
'Lauro, John.....7732 Ardleigh St., Phila.
arsch, Wm. F. .....Narberth, Pa.
assiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
ivezey, John R. Glenwood Ave. w. of 22nd St., Phila.

COLUMNS (Metal).
earce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE SEWER PIPE.
roudsburg Septic Tank Co..328 Chestnut St., Phila

CONCRETE WORK.
arsch, Wm. F. .....Narberth, Pa.
assiah, Frederick.. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
evitt, Paul J. .....1101 S. 2nd St., Phila.
ee T. Ward Co. .....617 Filbert St., Phila.
ervice Supply Corporation, 20th and Venango Sts.

CORK FLOORING
ivezey, John R. Glenwood Ave. w. of 22nd St., Phila.
elby Battersby & Co. .....810 Noble St., Phila.

CURTIS WOODWORK.
illingham Co ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
uilding News Pub. Co. ...1530 Chestnut St., Phila.

DAMPPROOFING.
nti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
arnett Bingswanger.....829 N. 3rd St., Phila.
oncrete Waterproof Paint Co..829 N. 3rd St., Phila.
laster Builders Co., ...Otis Bldg., Phila.
ruscon Laboratories.....1505 Race St., Phila.

DOOR BEDS
urphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
Veber, F. Co. .....125 S. 12th St., Phila.
Veil, J. H., Co. .....1315 Cherry St., Phila.

EXCAVATING.
arsch, Wm. F. ....Narberth, Pa.
anitary Sewage Disposal Corp..40 S. 52nd St., Phila.

FENCES.
ettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
otts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
eisbord, Wolf .....4437-43 Ludlow St,. Phila.

FINANCING (BUILDING)
ommercial Advance Corp., 1011 Chestnut St., Phila.
ortgage Extension Corp.,..1011 Chestnut St., Phila.

FIREPROOFING.
earce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES.
. E. Lingo & Son .....Camden, N. J.

FLOOR HARDENER.
nti-Hydro Waterproofing Co., 24th and Parkway.
oncrete Waterproof Paint Co...829 N. 3rd St., Phila.
laster Builders Co., ...Otis Bldg., Phila.
ruscon Laboratories.....1505 Race St., Phila.

FLOORING (Rubber Tile).
amilton Rubber Mfg. Co. ..2313 Walnut St., Phila.
elby Battersby & Co. .....810 Noble St., Phila.

FLOOR PLATES.
ood, Alan, Iron & Steel Co..Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. .....44 N. 5th St. Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GARAGE HEATERS.
Fleck Bros. Co. .....50 N. 5th St., Phila.

GAS RANGES.
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GRADING
Harsch, Wm. F. .....Narberth, Pa.

GRANITE
Architectural Cast Cut Stone Co. ...Westmont, N. J.
John Meehan & Son.....916 W. Dakota St., Phila.
Vineland Architectural Cast Stone Works,
Vineland, N. J.

HARDWARE (Builders').
Devitt, Paul J. .....1101 S. 2nd St., Phila.

HEATING CONTRACTORS.
Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....7038 Gray's Ave., Phila.

HEATING BOILERS.
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. Co. .....50 N. 5th St., Phila.

HOLLOW TILE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

HOT WATER GENERATORS.
Edwin Elliot Co. .....560 N. 16th St., Phila.

INSURANCE.
Insurance Co. of North America, 1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
1711 Chestnut St., Phila.
Smith-Austermuhl Co. .....Camden, N. J.

IRON AND STEEL BARS AND PLATES.
Nicetown Plate Washer Co.1844 W. Juniata St., Phila.
Potts, Horace T. & Co. ....Erie Ave. and D St., Phila.
Wood, Alan, Iron & Steel Co...Widener Bldg., Phila.

IRON AND STEEL (Structural and Ornamental)
DeCou, Richard Co. .....11th and Noble Sts., Phila.
Lederle, Robt. B., & Co. ..Witherspoon Bldg., Phila.
Livezey, Thos. H. ..American and Luzerne Sts., Phila.
Montgomery Iron & Steel Co..918 W. Berks St., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Reisbord, Wolf.....4437-43 Ludlow St., Phila.
Whartenby, Harry A. .....10 S. 18th St., Phila.

KITCHEN CABINETS.
Philadelphia Gas Range Co. ...1026 Arch St., Phila.

LEVELS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

LIGHTING FIXTURES.
Longaker, Abram F. .....Bourse Bldg., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LIGHT IRON CONSTRUCTION.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LINOTILE.
Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

LUMBER.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Ketcham, Howard.....3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

LUMBER (Wholesale).
J. Randall Williams & Co.,
1031 Commercial Trust Bldg., Phila.

MARBLE AND MOSAIC.
Acorn Tile Co. .....Clementon, N. J.
Belfi Bros. Co. .....1923 Market St., Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. .....433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.
Roman Mosaic & Tile Co. .....435 Green St., Phila.
Wm. G. Wilson.....2313 Walnut St., Phila.

MASON BUILDER.
D'Lauro, John.....7732 Ardleigh St., Phila.

METAL LATH.
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
John S. Raynor.....2300 E. Lehigh Ave., Phila.

METERS.
Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

MILLWORK.
Gillingham Co. ...Norris and Richmond Sts., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

PAVING BRICKS.
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS.
Weber, F., Co. .....125 S. 12th St., Phila.

PLASTERER.
Joseph Rotornado.....4740 Milnor St., Phila.
Joseph Sterling.....Camden, N. J.

PLASTERERS' SAFETY CLIPS.
John S. Raynor.....2300 E. Lehigh Ave., Phila.

PLUMBING FIXTURES.
Fleck Bros. Co. .....44 N. 5th St., Phila.

PORCH ENCLOSURES.
Malia, Thomas .....226 W. Mentor St., Phila.

RADIATOR CABINETS.
Radiator Cabinet Co. .....Drexel Bldg., Phila.

RANGES.
Abram Cox Co....American and Dauphin Sts., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co. ....1026 Arch St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

REFRIGERATORS.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelphia Gas Range Co.....1026 Arch St., Phila.

REINFORCING BARS.
Montgomery Iron & Steel Co. 918 W. Berks St., Phila.
Nicetown Plate Washer Co., Inc.,
1844 W. Juniata St., Phila.
Penn Steel Service Co. .....Perry Bldg., Phila.
H. T. Potts & Co. ....Erie Ave. and "D" St., Phila.

ROAD BUILDING.
Harsch, Wm. F.....Narberth, Pa.

ROAD MACHINERY.
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation, 20th and Venango Sts.

ROOFING.
Benjamin Foster Company,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.

ROOFING MATERIALS.
Service Supply Corporation,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.

ROOFING SLATE.
Chapman Slate Co .....Bethlehem, Pa.

ROOFING TILE.
Ketcham, O. W. .....121 N. 18th St., Phila.

RUBBER FLOORING.
Hamilton Rubber Mfg. Co. ..2317 Walnut St., Phila.
Selby Battersby & Co. .....810 Noble St., Phila.

SAFETY GUARDS.
Potts, Horace T., & Co...Erie Ave. and D St., Phila.

SAND AND GRAVEL
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

SCAFFOLDING.
Patent Scaffolding Co. .....2835 Bridge St., Phila.

SCREENS.
Malia, Thomas.....226 W. Mentor St., Phila.

SEPTIC TANKS.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

SEWAGE EJECTORS.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

SEWERAGE WORK.
Harsch, Wm. F. .....Narberth, Pa.

SEWER PIPE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.

SHEETROCK (Wall Board).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

SOUNDINGS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

STEAM SPECIALTIES.
Edwin Elliot Co. .....560 N. 16th St., Phila.

STEEL SASHES
Lupton Sons Co., David
Allegheny Ave. & Tulip St., Phila.

STONE.
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 27
July 7, 1926

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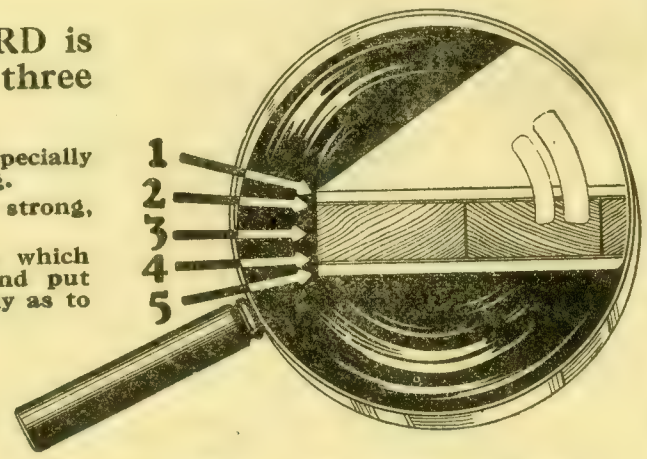
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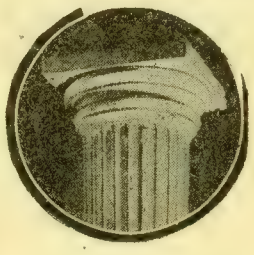
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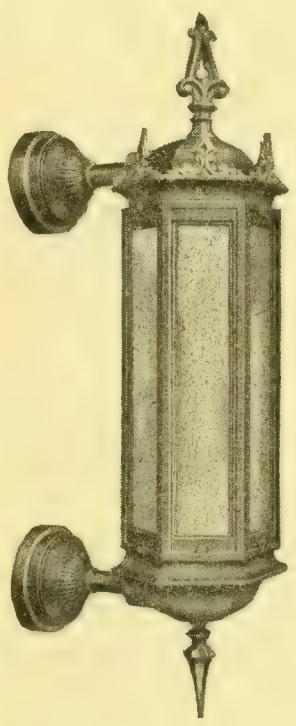
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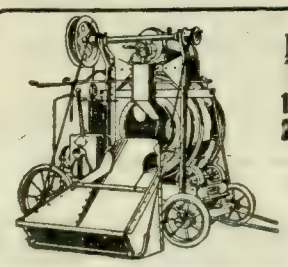
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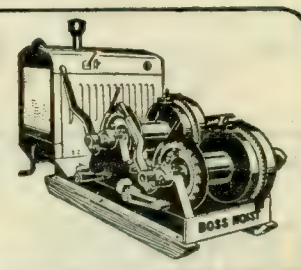
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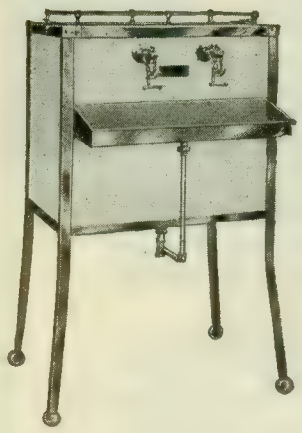
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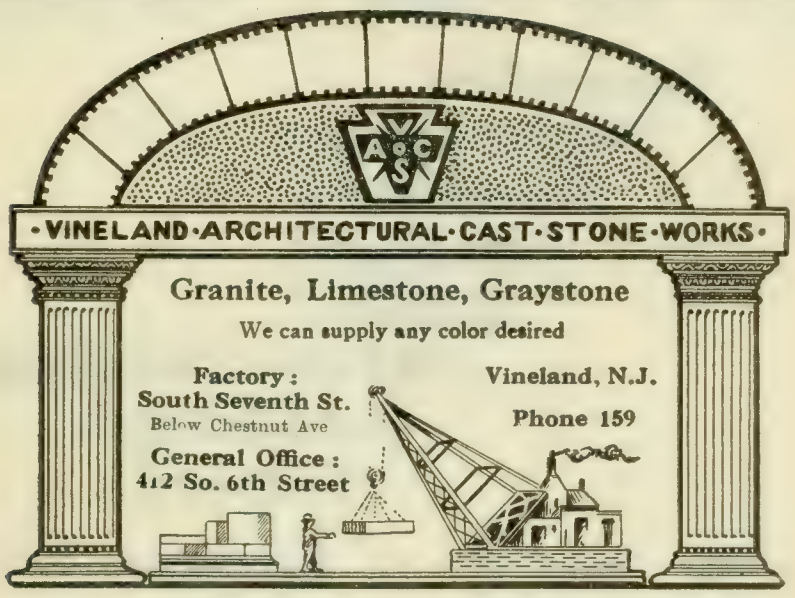
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 27

PHILADELPHIA
July 7, 1926

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As The Editor Sees It

THE semi-annual report of building operations in Philadelphia for the first six months of this year published in full on other pages of this issue of the GUIDE, shows a decline of over $15,000,000.00 in total value of work for the half year just ended, compared to the first six months of 1925.

The total work of all kinds for which permits were issued in the six months ending June 30 was $70,199,500, compared to $86,014,515 for the first six months of 1925. The number of operations shows a decrease of 3,494 for the same periods.

To June 30, 1926, permits were issued for 6,597 new buildings at an estimated cost of $61,914,685; alterations and additions, 3,353 permits amounting to $7,657,895 were issued, and miscellaneous permits, 1,188, amounting to $626,920.

The greatest decrease is noticeable in residences. Every month of the first six months of this year, excepting January, showed material decrease in two-story residences. The total number of two story residences started in 1926 to June 30 was 4,965, costing $23,582,225, whereas in the corresponding period of 1925 there were 7,730 two story residences, costing $41,276,145, started, showing a decline of 2,765, at a loss of $17,693,920. Residences of the three story type, the one story type, and the frame type all showed large decreases in the same period.

For the first time in many semi-annual reports, garages made a smaller showing, a decrease to date in 1926 from 1,320, costing $4,218,945, in 1925, to 906, costing only $2,616,235. This unquestionably manifests a falling off in demand for small residences with garages, emphasizing the fact that Philadelphia is nearing, if not already having reached, a situation where small houses are not moving rapidly. Manufactories show a marked increase from 34, costing $1,825,820 in 1925 first half year, to 40, costing $4,507,650 in same period 1926. Tenement houses, like residences, showed a considerable decrease from 52, costing $11,367,000 in 1925, to 35, costing $4,507,000 in 1926 to date Schools show an increase from 8, costing $4,418,555, in first half of 1925, to 9, costing $5,422,505, in 1926. Office buildings show an increase from 19, costing $3,907,000, to 25, costing $4,444,850 in same periods. Buildings for the Sesqui-Centennial Exhibition, 108, costing to date $4,229,455, helped to overcome some of the losses in total building value.

June, of 1926, was the largest month on record for this year, with a record for this month greater than any corresponding month in the history of building in Philadelphia. Permits were granted in June for 1198 operations costing $16,642,745. This is an increase of nearly $3,500,000 over June, 1922, which was, until last month, the best June on record. With the exception of February, which showed a small increase over February, 1925, June was the only month so far that showed an increase over 1925.

The record for the first six months of 1925:

Month	Permits	Operations	Estimated Cost
Jan.	614	964	$ 6,567,755
Feb.	957	1,929	10,320,835
March ...	1,718	4,164	22,424,530
April	1,461	2,848	21,110,645
May	1,369	2,423	14,434,300
June	1,310	2,304	11,156,450

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The record for the corresponding six months of 1926:

Month	Permits	Operations	Estimated Cost
Jan.	684	1,208	$ 7,590,755
Feb.	647	1,081	9,108,245
March ...	1,230	2,524	15,065,885
April	1,436	2,456	11,381,330
May	1,242	1,971	10,410,540
June	1,176	1,198	16,642,745

The records for first six months of the last ten years:

1915	923	1700	$ 3,873,850
1916	873	1709	5,147,115
1917	618	763	2,328,755
1918	564	694	1,671,900
1919	1073	1951	7,354,625
1920	1171	1213	6,743,015
1921	1280	1406	4,587,395
1922	1492	2461	13,190,220
1923	1334	1742	8,370,875
1924	1577	2040	11,108,880
1925	1310	2304	11,156,450

In two story dwellings the forty-second ward showed the largest number started, 1,214; but this same ward showed the largest decrease compared to the first six months of 1925 when 2,104 dwellings of this type were built. The thirty-fifth ward was second in number of two story dwellings started, with 1,181, and this ward showed an increase in 1926 from only 782 in first half year of 1925. Marked decreases were manifested in the wards 21, 22, 23, 26, 34, 38, 39, 40, 41 and 48. Increases were noted in wards 33, 43, 45.

The careful builder of the future will use chemically treated lumber wherever decay favoring conditions exist about the house, according to predictions made by M. E. Dunlap of the U. S. Forest Products Laboratory.

"The use of treated wood, and particularly one-inch and two-inch boards impregnated through and through, will offer a solution to the decay problem of the home owner just as the use of treated ties has enabled the railroads to reduce their tie renewals by 60 per cent. or more," said Mr. Dunlap.

"At present, retail lumber dealers do not carry stocks of treated boards or timbers nor do treating plants exist which specialize in treating ordinary lumber. Treated boards for ordinary construction work, to be really resistant to decay, must be impregnated through and through, a result difficult to obtain except in an efficient large-scale pressure impregnation plant.

"With the use of through-treated boards. the builder will be free to cut boards to length at will without the necessity of resorting to the not always dependable brush treating methods used to cover untreated wood exposed on cut ends.

"For many purposes treated boards to be readily marketable will have to be paintable, although this will not be true for all uses. In many places it should prove practicable to use creosote, a preservative which has so far proved difficult to paint."

Anticipating the demand for through-treated lumber the U. S. Forest Products Laboratory has started studies both of methods of getting complete penetration of building lumber and of painting over woods impregnated with zinc chloride, sodium fluoride, creosote and other preservatives. Results of these studies, according to Mr. Dunlap, will probably not be available for some time but it is expected that the study will be well abreast of economic developments leading to the general use of treated lumber.

GARAGE VENTILIATION AN IMPORTANT FACTOR TO THE CONTRACTOR AND BUILDER

With an actual registration of approximately 20,000,000 automobiles in 1925 and a contemplated 1926 production of 3,000,000 more, the local contractor and

(Continued on page 431)

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Iron Grills and Ornamental Paneling, Nineteenth and Arch streets, Philadelphia. Owner, Jacob C. Kahn, 1421 Chestnut street, Philadelphia. Ornamental paneling, American walnut; iron grills. Owner taking bids due July 9th.

Printing Plant, Northeast Corner Broad and Noble streets, Philadelphia. Architect, not yet selected. Owners, Lasher & Co., 147 North Tenth street. Philadelphia. Size of lot, 237x18 5feet, 4 or 5 stories. Work contemplated.

Manufacturing Buildings (2), Twenty-third, Twenty-fourth, Vine to Wood streets, Philadelphia. Architect, not yet selected. Owners, Consolidated Machine Corporation of America, Twenty-third and Vine streets, Philadelphia. Reinforced concrete, steel. Work contemplated.

Residence and Garage, School House lane and Spring House road, $45,000. Architects, Rankin, Kellogg & Crane, 1805 Walnut street, Philadelphia. Owner, Miss J. H. Rankin, care of architect. Stone, 2½ stories, 35x52 feet, slate roof, hardwood floors, electric light, tile and marble work. Plans in progress.

Sunday School, Westview street and Greene street, Germantown, Philadelphia. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Summitt Presbyterian Church, Rev. Frank M. Fox, 517 Westview street, Philadelphia. Stone, 2 stories and basement, slate roof. Plans in progress.

Gymnasium Building, Grant avenue, Convent avenue, Torresdale, $40,000. Architect, private plans. Owners, Sacred Heart Academy, on premises. Stone, concrete, 1 story, 80x40 feet, slate roof, cement floors. Work contemplated.

Apartment House, Hicks and Spruce streets, Philadelphia. Architect, Clarence Wunder, 1520 Locust street, Philadelphia. Owners, Company, care of Bernard Dorf, Stock Exchange Building, Philadelphia. Contract awarded United States Const. Co., 614 Stock Exchange Building, Philadelphia. Details undecided. Plans in progress.

Olney Public School (alts. and add.), Tabor road and Water street, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, granite, steel, 2 stories and basement, 97x115 feet (plumbing, heating, electric separate), slate roof, cement, oak and maple floors, hollow tile, safety treads, metal weather strip and ceiling, dampproofing, demolition, ornamental iron work, iron stairs, floor hardener, bond, rolled steel doors and sash, metal lath. Owners taking bids due July 12th.

Public School, Nedro and Ogontz avenue, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, cut stone, granite, 3 stories and basement, 212x86 feet (plumbing, heating, electric separate), composition asphalt roof, cement floors, maple floors ,hollow tile, plumbing, metal weather strip, membrane waterproofing, dampproofing, ornamental iron work, iron stairs, floor hardener, bond, hollow metal doors, rolled steel sash, tile and marble work, metal lath, demolition, mastic asphalt floors, safety treads, area gratings. Owners taking bids due July 12th.

Manufacturing Building, Southeast Corner Thirty-fourth and Lehigh avenue, Philadelphia. Engineer, S. G. Matthews, 2016 West Lippincott street, Philadelphia. Owners, Bornot, Inc., care of Frazier Co., 1600 Walnut street, Philadelphia. Brick, concrete, cast stone, steel, 2 stories and basement, 213x218 feet, gypsum slag roof, cement and maple floors, steam heat, electric light, metal lath, sheet metal sash, galvanized iron skylights, fire doors, bond, sprinkler system, demolition, area gratings, rolled steel sash, waterproofing. Engineer taking bids due July 13th, 5 P. M. (Daylight Saving Time).

Mill Building, Venango and Weikel streets, Philadelphia. Architect, private plans. Owners, Olympia Hosiery Mills, Inc., care of builder. Brick, steel, 1 story, 40x100 feet, slag roof, flooring not decided, probably wood block, plumbing, steam heat, electric light. Josep hCichiny, 743 Corinthian avenue, will build and is taking sub-bids.

Apartment Hotel, Roosevelt Boulevard and Rising Su navenue, Philadelphia, $300,000. Architect, private plans. Owner, name withheld. Brick, stone, concrete, steel, 4 stories, 208x158 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work, electric elevators, kitchen equipment, waterproofing and dampproofing. Plans in progress. W. W. Anstine, Frankford and Oxford avenues, Philadelphia, will build and will be ready for sub-bids in 3 weeks.

Office Building, Woodland avenue, Thirty-second to Thirty-third street, Philadelphia. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owner, name withheld. Limestone, brick, terra cotta, steel, concrete, 18 stories. Plans in progress. Architect ready for bids in about 3 weeks.

Garage, 819-23 Walnut street, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, J. Bodek, 216 Ledger Building, Philadelphia. Brick, steel, concrete, 8 stories, 67x125 feet, cement floors, steam heat, electric light, rolled steel sash. Plans in progress. Ready for bids in 3 weeks.

School and Dormitory Building, Northeast Corner Sunset and Germantown, Philadelphia. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, Sisters of St. Joseph, Fonbonne Hall, on premises. Stone, cut stone, 2 stories and basement, 56x182 feet (plumbing and heating reserved), slate roof, maple floors, electric light, tile and marble work, metal ceilings. John McShain, Inc., 1713 Sansom street, Philadelphia, taking sub-bids.

Cold Storage Warehouse, Private Sales Building, Delaware and Jackson street, Philadelphia. Architects, Office of Engineer of Buildings, Baltimore, Md. Owners, Baltimore & Ohio Railroad Co., Baltimore, Md. Brick, reinforced concrete, steel, 1 story, 919x100 feet, composition roof, cement floors, roof ventilators, metalkote waterproofing, ornamental iron work, rolled stee lsash and skylights, metal lath, linoleum floors, metal toilet partitions (plumbing, heating, electric light, wood block floors, rolling steel doors, elevators, pile driving reserved). Owners taking bids due July 12th.

Nurses' Home and Training School, Chestnut Hill, Pa. Architects, Willing, Sims and Talbutt, 10 South Eighteenth street, Philadelphia. Owners, Chestnut Hill Hospital, Miss L. Le Fevre, Chestnut Hill. Brick, stone, cut stone, reinforced concrete, 3 stories and basement, 150x39 feet, asbestos built-up roof, linoleum, cement and maple floors, metal lath, tile, marble and terrazzo work, hollow metal sash, rolled steel skylights, floor hardener, ornamental iron work, limestone, flagstone, Ironite waterproofing. Architects taking bids due July 13th.

Various Toilet Rooms (alts.), North American Building, Broad and Sansom streets. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, North American Building, Broad and Sansom streets, Philadelphia. Demolition, plastering, tile, electric work, metal toilet partitions, mill work and carpentry, painting and glazing, drainage and plumbing. Architect taking bids.

Auditorium, Thirty-fourth and Spruce streets, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Brick, concrete steel, cut stone, 1 story and 2 stories, balcony and basement, irregular in size, variegated slate roof, maple floors, cement floors, steam heat, electric light, metal lath, marble and terrazzo work, ornamental terra cotta, ornamental iron work, sprinkler, steel partitions. Architect taking bids due July 14th at noon.

Building (alts. and add.), 2124 Walnut

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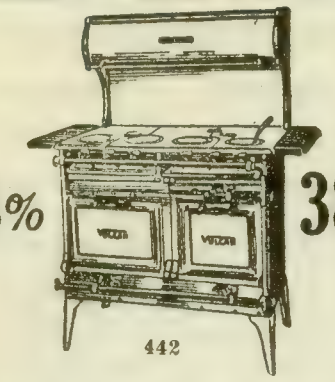


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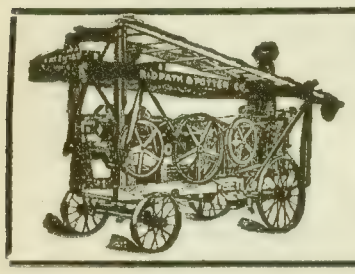
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street, Philadelphia. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owner, Charles H. Fein, 916 Pine street, Philadelphia. Demolition, excavation, brick work, cut stone, architectural terra cotta, reinforced concrete, metal lath, plastering, iron work, marble and tile work, carpentry and mill work, oak floors, kalamein doors, Morene finish, leaded glass, painting and glazing, aquea stone. Architect taking bids due July 9th.

Sunday School, Castor road and Pratt street, Philadelphia. Architect, George C. Baum, 1511 Arch street, Philadelphia. Owners, St. James' Lutheran Church, on premises. Brick, stone, stucco, 1 story and basement and gallery, 66x52 feet, slate and slag roof, pine and cement floors, steam heat, electric light, metal lath, ornamental iron work. Architect taking bids due July 12th.

Garage, Wayne and Hortter streets, Philadelphia. Architect, Edgar Wightman, Bankers' Trust Building, Philadelphia. Owner, E. T. Flood, on premises. Stone, brick, steel, 1½ stories, 26x30 feet, shingle roof, cement floors, electric light, plumbing, ornamental iron work (heating separate). Architect taking revised bids due as soon as possible.

Water Softening and Deaerating Plant, Twenty-first and Oregon avenue, Philadelphia. Owners, P. Q. M. I. Depot, Twenty-first and Oregon avenue, Philadelphia. Owners taking bids due July 8th, 10 A. M. (Standard Time).

Gym Building (alts.), Chestnut Hill, Pa. Architect, Arnold Moses, Camden, N. J. Owners, Springside School for Girls, Mrs. L. T. Chapman, on premises. Owners taking bids due July 9th.

Contract No. 800, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Furnis hand deliver steel wash water troughs at Torresdale filters. Contract No. 834, furnish and deliver pipe, fittings, valves, etc., Roxborough Booster Station. Owners taking bids due July 13th, 11 A. M. (Standard Time). Certified check 5 per cent. Inquire Room 788.

Garage, 924 Spring street, Philadelphia. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owner, Joseph A. Brady, 136 South Fourth street, Philadelphia. Low bidder: Paul Brosz, 2511 West Huntingdon street, Philadelphia, $159,495. All bids rejected. Revised plans in progress.

Swimming Pool, Twenty-seventh and Indiana avenue, Philadelphia. Architect, Paul Henon, Jr., Finance Building, Philadelphia. Owners, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Low bidders: McCormick-Lenham Co., Southeast Corner Broad and Tasker streets, $32,965; J. F. Cody, 3201 Ashburner street, Philadelphia, $34,000.

Residences (2), 7158-60 Hegerman street, Philadelphia, $3,500 each. Architect, private plans. Owner, Louis Caecho, 7156 Hegerman street, Philadelphia. Brick, 2 stories, 14x46 feet, slag roof, pine floors, hot water heat, electric light. Permit issued .

Store and Residence (add. and alts.), 6622-24 Germantown avenue, $3,000. Architect, private plans. Owner, Jacob Sarshik, 5719 Wayne avenue, Philadelphia. Brick, 1 story add., 16x8 feet, general alterations. Permit issued.

Residence, 36 East Mt. Airy avenue, Philadelphia, $2,500. Architect, private plans. Owner, A. S. Tourison, 7014 Boyer street, Philadelphia. Brick, 1 story add., 20x22 feet, slag roof, pine floors. Permit issued.

Residences (73), Gransback, Louden, Rockland and Ruscomb streets, $316,700. Architect, private plans. Owner, Morris Lichtstein, 4751 North Eighth street, Philadelphia. Brick, 2 stories, (4) 18x51 feet, (69) 14x51 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Store (add.), Northwest Corner Forty-second and Chestnut streets, Philadelphia, $2,500. Architect, private plans. Owner, Stanley W. Fitzhugh, Forty-second and Chestnut streets, Philadelphia. Brick, 2 stories add., 14x41 feet, slag roof, pine floors, electric light. Permit issued.

Residences (2), Henry road, North of Coulter street, Philadelphia, $40,000. Architects, Samuel D. Hawley & Co., 1700 Walnut street, Philadelphia. Owner, William T. Holmes, Twenty-fifth and Lombard streets, Philadelphia. Stone, 3 stories, 27x38 feet, 22x21 feet, slate roof, hardwood and pine floors ,hot water heat, electric light. Permit issued.

Residence, 1109 East Passyunk avenue, Philadelphia, $7,000. Architect, private plans. Owner, Joseph Buccufurin, on premises. Brick, 3 stories, 16x28 feet, 13x27 feet, slag roof, hot water heat, electric light. Permit issued.

Residence and Store (add.), 613 South Third street, Philadelphia, $5,000. Architect, private plans. Owner, Jacob Glazer, 613 South Third street, Philadelphia. Brick, 2 stories add., 14x45 feet, slag roof, pine floors, electric light. Permit issued.

Residences (3), East side Gaul street, North of Somerset street, $3,000 each. Architect, private plans. Owners, Star Building Co., 3027 Edgemont avenue, Philadelphia. Brick, 2 stories, 15 feet 6 inches x 34 feet 6 inches, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (29), Pittville street, East of Ogontz avenue, $5,000 each. Architect, pri-

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vate plans. Owner, Frank P. Griffith, 4737 North Camac street, Philadelphia. Brick, 2 stories, 16x35 feet, 12x18 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (2), West side Tabor road, South of Faunce street, $4,500 each. Architect, private plans. Owner, Henry Perlman, 1220 Cottman street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Service Station, Northwest Corner Sixty-second and Lancaster avenue, Philadelphia, $,000. Architect, private plans. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, 1 story, 42 feet 10 inches x irregular. Permit issued.

Residences (27), Glenlock, St. Vincent and Cottman streets, $123,800. Architect, private plans. Owners, Cottman Const. Co., 5231 Heston street, Philadelphia. Brick, 2 stories, various sizes, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Sub-Station (alts.), 2011 Ranstead street, Philadelphia, $60,000. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. General alterations. Permit issued.

Theatre (alts.), 3141 Frankford avenue, Philadelphia, $11,500. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Co. of America, 1916 Race street, Philadelphia. General alterations. Permit issued.

Grandstan dand (2) Houses), Sesqui Grounds, Philadelphia, $12,000. Owners, McConnell Concessions, Los Angeles, Cal. Frame, 200x86 feet, houses, 1 story, 110x12 feet and 76x32 feet. Permit issued.

Residences (2), South side Solly avenue, East of D street, Philadelphia, $5,000 each. Architect, private plans. Owner, W. G. Isles, 410 Levick street, Philadelphia. Brick, 2 stories, 14x40 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (34), Roosevelt Boulevard and D street, Philadelphia, $183,000 . Architect, private plans. Owner, Finestone and Mittelman, 436 East Rockland streets, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residence, S. S. Hillcrest Ave., W. of Norwood St., $15,000. Architect, private plans. Owner, Wm. Allen, 6517 North Twelfth St., Philadelphia. Stone, 3 stories, 27x57 feet, 23x19 feet, slate roof, hardwood and pine floors, hot water heat. Permit issued.

Residences (2), North side Vernon road, East of Stenton Avenue, $8,000 each. Architect, private plans. Owner, Louis Phillips, 2927 North Twenty-fourth street, Philadelphia. Stone and brick, 2 stories, 18x46 feet, hardwood and pine floors, hot water heat, electric light. Permit granted.

Residences (2), 8107-09 Ridge Avenue, Philadelphia, $6500 each. Architect, private plans. Owner, Frank J. Smith, 331 Lyceum Avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residence and store (alts.), 1718-20-22 Susquehanna Avenue, $10,000. Owners, Henry G. Tolson, 2205 North Broad street, Philadelphia. Lessee, F. W. Woolworth Co., 1020 Market street, Philadelphia. General alterations. Permit issued.

Museum and Gardens, Parkway, Philadelphia. Architect, Jacques Greber. Associate Architect, Paul Cret, Otis Building, Philadelphia. Owner, Jules E. Mastbaum, care of Stanley Co., 19th and Race Streets, Philadelphia. Plans in progress.

Office Building, 1420-22 Walnut street, Philadelphia. Architect, Ralph B. Benckler, Northeast corner Thirteenth and Chestnut Streets, Philadelphia. Owner, Chancellor Realty Company, care of Architect. Brick, limestone, steel, 15 stories, 50x186 feet, elevators, steam heat, electric light, tile and marble w ork. Acrhitect taking bids due July 13th at noon.

Residences (28), Montgomery Avenue and Georges Lane, Philadelphia. Architect, I. W. Levin, 1011 Chestnut Street, Philadelphia. Oyner, Samuel Cornan, 1718 Georges Lane, Philadelphia. Brick, 2 stories, 16½x30 feet, slag and slate roof, hardwood floors, hot water heat, electric light, tile work, metal lath, cement work, garages in basement. Owner taking sub-bids.

Residences (40), Summerdale and Wakling streets, Philadelphia. Owner, Anthony Oliveri, 6726 Torresdale Avenue, Philadelphia. Brick, 2 stories, 16x38 feet, electric, hot water heat, hardwood floors, slate roof, tile work. Owne will build.

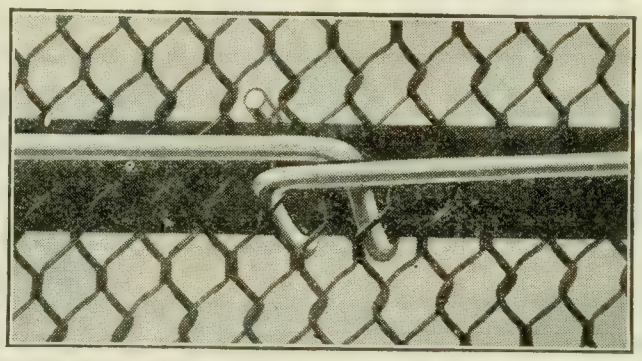
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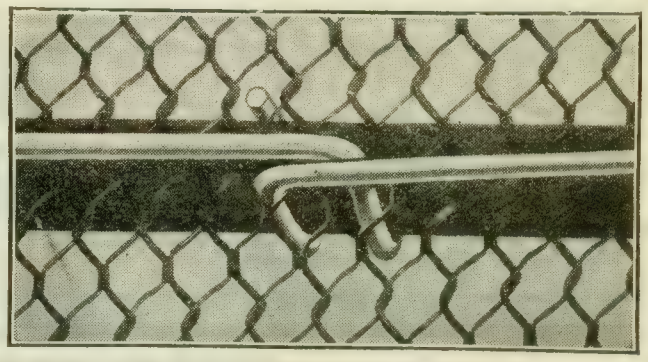
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Building, Northeast corner Fifth and Olney Avenue, Philadelphia. Architect, Silverman and Levy, Real Estate Trust Building, Philadelphia. Owner, Mastbaum Bros. and Fleishier, 1432 South Penn Square, Philadelphia. Concrete, artificial stone, brick, steel, 2 stories and basement, 51x100 feet, slag roof, cement, oak and pine floors, plumbing steam heat, electric light, metal lath, tile and marble work, metal bulks, ornamental iron work, sprinkler, painting and glazing. Contract awarded Golder Const. Co., 263 S. Fifteenth street, Philadelphia.

Garage (alts.), 3501 North Fifth street, Philadelphia, $4,000. Architect, private plans. Owner, Samuel Raider, 5126 Walnut street, Philadelphia. General alterations. Contract awarded to Louis Lambkin, 118 S. Ruby street, Philadelphia.

Sunday School, Church, Ridge avenue and Hermitage street, Roxborough, $250,000. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Levering Presbyterian Church, Rev. H. Burgess, 4423 Mitchell street. Stone, brick, cut stone, steel, 2 stories and basement, 103x72 feet, wing 110x82 feet, variegated slate and built-up roof, cement and maple floors, steam heat, electric light, metal lath, terrazzo work, hollow metal sash, fire doors, floor hardener, truscon waterproofing, demolition, steel partitions, plumbing, painting and glazing, plastering, cut cast stone, flagstone. Contract awarded C. C. Pace, Cynwyd, Pa.

Bank Building, Northeast Corner Front and Allegheny avenue, Philadelphia, $50,000. Architects, Watt & Coscia, 1504 Locust street, Philadelphia. Owners, Allegheny Title & Trust Co., F. T. Neill, president, 300 Walnut street, Philadelphia. Limestone, brick, reinforced concrete, cut stone, 2 stories and basement, 38x59 feet (heating, oil burner, plumbing, electric, marble work, lockers, elevators reserved), Barrett specification roof, cement and composition floors, hollow tile, shoring, dampproofing, metal lath, tile work, hollow metal sash, rolled steel skylights, hollow metal doors, bond, iron stairs, ornamental iron, demolition, area gratings, metal toilet partitions, bronze work ,granite, cast stone. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Service Station, Kensington avenue and Sedgley street, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, concrete block, stucco, 1 story, 40x24 feet (plumbing, heating and electric reserved), slag and tile roof, cement floors, steam heat, electric light, metal lath, electric light, bond, ornamental iron work ,ornamental terra cotta, roof ventilators. Contract awarded Metzger, Fisher & White, Otis Building, Philadelphia, who are taking sub-bids due as soon as possible.

Bank (alts.), Northwest Corner Forty-fourth and Lancaster avenue, Philadelphia, $9,000. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Empire Title & Trust Co., William Powers, president, on premises. General alterations, 3 stories and basement, electric work, plumbing, hardware, painting and glazing, metal lath, plastering, sheet metal work, steel and iron work, carpentry and mill work, masonry. Contract awarded Knox Landers, 1132 Vine street, Philadelphia.

Store and Office, Southeast Corner Fifth and Tabor road, Philadelphia. Architect, Robert M. Reeves, 5539 North Third street, Philadelphia. Owner, Dr. William Roper, on premises. Brick, concrete, 2 stories and basement, 42x76 feet (plumbing, heating reserved), slag roof, cement floors, electric light, tile work, metal lath, galvanized iron skylights, metal ceilings, metal bulks, demolition, area gratings. Contract awarded Louis Braeunig, Fairhill and Chelten avenue, Philadelphia.

Residence (alts.), 402 Moreland avenue, Chestnut Hill, Pa. Architect, Robert M. Reeves, 5539 North Third street, Philadelphia. Owner, Maryan DeKozlowski, 402 Moreland avenue, Chestnut Hill. Hot air heat, electric light, tile work, plastering, wood floors, plumbing, mil lwork. Contract awarded William Wolverton, 226 East Willow Grove avenue, Chestnut Hill.

Bridge (alts. and add.), Eighth and Filbert streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Lit Brothers, Eighth and Market streets, Philadelphia. Concrete, cement, cut stone, dampproofing, demolition, gypsum block, kalamein work, marble work, metal sash, plastering, mosaic system, metal lath, painting and glazing. Contract awarded William Linker Co., 735 Cherry street, Philadelphia.

Interior Finish of Building (1 story to 14th floor), Nineteenth and Arch streets, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, Jacob C. Kahn, Morris Building,

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Philadelphia. Cement work, hollow tile, bronze work, steel furniture, kitchen equipment, plumbing, tile, bronze work ,plastering, tile and marble work, metal lath, kalamein work. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia.

Building (alts. and add.), 3313 North Broad street, Philadelphia. Architects, Shalheimer & Weiss, 10 South Eighteenth street, Philadelphia. Owners, North Philadelphia Realty Board, Mr. Thomas, on premises. Brick, limestone, concrete steel, 2 stories and basement, 32x28 feet, slag roof, treadlite and cement floors, plumbing, granite, steam heat, electric light, marble work, casement sash. Contract awarded S .A. Sims, 2315 Walnut street, Philadelphia.

Stores, Restaurant and Theatre, Sesqui Grounds, Philadelphia, $14,000. Owners, Streets of Canton, Inc., care of builder. Frame, 1 story, 100x204 feet. Contract awarded to J. Shenkman, Atlantic City, N. J.

Dance Floor, Sesqui Grounds, Philadelphia, $5,000. Owners, Dansant Amusement Co., 308 North Third street, Philadelphia. Steel, frame, 1 story, 130x130 feet. Contract awarded to J. Shenkman, Atlantic City, N. J.

Store and Office, 306 East Haines street, Philadelphia, $3,500. Architect, private plans. Owner, Francis Spagnolia, on premises. Brick, 2 stories, 16x24 feet, slag roof, pine floors, electric work. Contract awarded to D. D. Steel, Darby, Pa.

Residence (add.), 938 Tasker street, Philadelphia, $2,000. Architect, private plans. Owner, Peter Salvato, on premises. Brick, 1 story, 18x12 feet, slag roof, pine floors, electric work. Contract awarded to Alec Giallorcto, 1708 South Eleventh street, Philadelphia.

Store and Storage (alts.), 2758 Coral street, Philadelphia, $2,000. Architect, private plans. Owner, Albert Jones, 2755 Frankford avenue, Philadelphia. General alterations. Contract awarded to Crumlist Brothers, 2627 Emerald street, Philadelphia.

Residence and Store (add. and alts.), 3413-15-17-19 Walnut street, $16,000. Architect, private plans. Owner, D. H. Kabakjian, 105 East Strafford avenue, Philadelphia. Brick, 1 story add., 7x20 feet, general alterations. Contract awarded to Charles S. Bannett, 1633 South Fifty-ninth street, Philadelphia.

Store and Residence (add. and alts.), 1506 South street, $8,000. Architect, private plans. Owner, Benjamin Sternberg, 6045 Carpenter street, Philadelphia. Brick, 3 stories add., 14 feet 6 inches x 44 feet, general alterations. Contract awarded to Herman Gerthner, 1322 North Eighth street, Philadelphia.

Store and Storage (add .and alts.), Southeast Corner Germantown and Somerset, $8,000. Owner, A. M. Adams, on premises. Brick, 2 stories add., 17x21 feet, general alterations. Contract awarded to Paul Brosz, 2515 West Huntingdon street, Philadelphia.

Storage Shed, Twenty-sixth and Sedgley avenue, Philadelphia, $6,000. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Steel. Contract awarded to Montgomery Iron & Steel Co., 918 West Berks street, Philadelphia.

Residence (add.), 1941 North Nineteenth street, Philadelphia, $4,400. Architect, private plans. Owner, Asa G. Bates, 1941 North Nineteenth street, Philadelphia. Brick, 3 stories, 14x57 feet 9 inches, slag roof, pine floors. Contract awarded to O. A. Anderson, 1925 North Twentieth street, Philadelphia.

Garage, North side Bell's Mill road, East of Germantown avenue, $5,000. Architects, Willing, Sims & Talbutt, 123 South Eighteenth street, Philadelphia. Owners, Beauveau Borie, Jr., care of architects. Stone, 1 story, 8x16 feet, tile roof, cement floors, electric work. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Residence (add. and alts.), 3613 Locust street, Philadelphia, $5,000. Architect, I. Demschick, 1701 Chestnut street, Philadelphia. Owners, United Synagogues of America, Bankers' Trust Building, Philadelphia. Brick, 1 story add., 20x28 feet, general alterations. Contract awarded to S. H. Levin, Elrae Building, Philadelphia.

Tank, Southwest Corner Girard avenue and Taney street, Philadelphia, $5,500. Architect, private plans. Owners, Philadelphia Rapid Transit Co., Eighth and Dauphin streets, Philadelphia. Steel. Contract awarded to Pittsburgh-Des Moines Steel Co., 50 Church street, New York.

Garage, 3155-57 Frankford avenue, Philadelphia, $30,000. Architect, private plans. Owner, Philip Savar, 718 Snyder avenue, Philadelphia. Brick, 2 stories, 36x77 feet, slag roof, cement floors, electric work. Contract awarded to Babis & Bander Const. Co., Shubert Building.

Exhibition Building, Sesqui Grounds, Philadelphia, $35,000. Owners, Persia Society, Inc., 246 Park avenue, New York. Stucco, metal lath, 1 story, 83x60 feet. Contract awarded to Lithgow Co., 79 King street, New York.

Store (add. and alts.), 5620 Germantown avenue, Philadelphia, $35,000. Architect, private plans. Owners, Sachs Brothers, on premises. Brick, 2 stories add., 31x32 feet, general alterations. Contract awarded to Smelo & Donato, 121 North Seventh street, Philadelphia.

Churc hand Sunday School, 3400-10 Devereaux street, Philadelphia, $7,250. Owners, Wissinoming Tabernacle, Comly street and Torresdale avenue. Stone, 1 story ,33x53 feet. Contract awarded to Irving Demarest, 10 South Eighteenth street, Philadelphia.

Residence and Store (add. and alts.), 649

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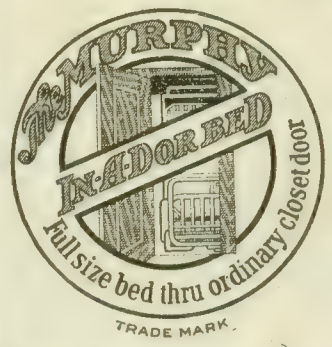
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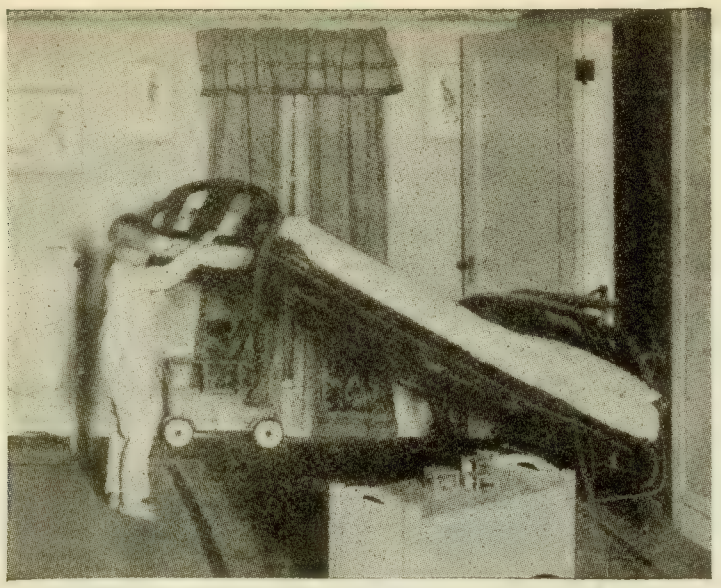
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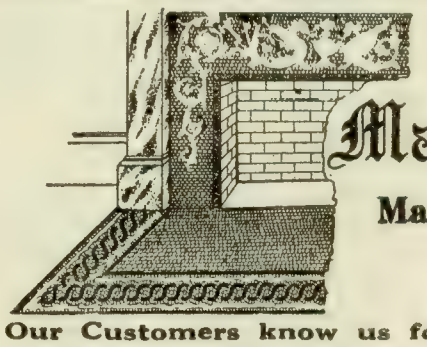
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Cantrell street, $3,600. Architect, private plans. Owner, Philip Kaskin ,1917 South Seventh street, Philadelphia. Brick, 1 story add., 15x6 feet, general alterations. Contract awarded to L. Bragin, 432 McKean street, Philadelphia.

Green House, 1821-23 North Broad street, Philadelphia, $3,000. Owners, Temple University, Broad and Montgomery avenue, Philadelphia. Brick, 17 feet 10 inches x 26 feet. Contract awarded to King Const. Co., 14 North Sixtieth street, Philadelphia.

Residence, 1216 South Thirty-first street, Philadelphia, $2,600. Architect, private plans. Owner, Walter Mulvaney, 3013 Wharton street, Philadelyhia. Brick, 2 stories, 16x28 feet, 12x17 feet, hot water heat, electric light. Contract awarded to John Steele ,1328 South Thirty-third street, Philadelphia.

Residences and Garages (16), North side Tyson street, West of Crispen street, $74,300. Architect, private plans. Owner, Isadore Mogilifsky, 1436 North Franklin street, Philadelphia. Brick, 2 stories, 15x32 feet, 12x10 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Buesechlow & Mogelefsky, 706 North Fifth street, Philadelphia.

Storage Building, 416-18 Budd street, Philadelphia, $10,000. Architect, private plans. Owner, T. N. Risser, 4237 Lancaster avenue, Philadelphia. Brick, 2 stories, 28x71 feet, slag roof, electric light. Contract awarded to Leonard Will, 651 North Frazier street, Philadelphia.

Residence, South side Wigard street, East of Fowler street, $10,000. Architect, private plans. Owner, Warner R. Hales, East Martin street, Philadelphia. Frame and store, 3 stories, 24x32 feet, hardwood floors, electric lighe. Contract awarded to G. L. & J. K. Callaghan, 545 Fairthorn avenue.

Parsonage (add. and alts.), 1908 Fitzwater street, Philadelphia, $8,450. Owners, Union Baptist Church, 1900 Fitzwater street, Philadelphia. Brick, 2 stories add., 14x16 feet, general alterations. Contract awarded to Samuel C. Brown, 919 South Seventeenth street, Philadelphia.

Residence, East side Hegerman street, South of Cottman street, $6,500. Architect, private plans. Owner, Pasquale D'Aseeze, 7233 Edmund street, Philadelphia. Brick, 2 stories, 16x53 feet, slag roof, hardwood and pine streets. Contract awarded to M. Tornene, 7230 Van Dyke street, Philadelphia.

Fur Display Building, Sesqui Grounds, Philadelphia, $6,500. Owner, B. J. McGee, Grand Rapids Bank Building, Grand Rapids, Mich. Frame, 2 stories, 30x50 feet. Contract awarded to George W. Wagoner, 909 South Twenty-fifth street, Philadelphia.

Garages (13), Northwest Corner Twenty-fourth and York streets, Philadelphia, $5,000 total. Architect, private plans. Owner, R. Fretz, Northwest corner Twenty-fourth and York streets, Philadelphia. Brihk, 1 story, 8x16 feet each, slag roof, cement floors. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street, Philadelphia.

Garage, 1717 Foulkrod street, Philadelphia, $4,000. Architect, private plans. Owner, E. A. Baldwin, 4809 Duffield street, Philadelphia. Brick, 1 story, 22x69 feet, slag roof, cement floors, electric work. Contract awarded to George Gray, 1224 Wakeling street, Philadelphia.

Residence (alts.), 1905 Pine street, Philadelphia, $3,000. Architect, private plans. Owner, Miss Elma H. Shick, 1823 Walnut street, Philadelphia. General alterations. Contract awarded to H. John Homan Co., Eighteenth and Cherry streets, Philadelphia.

Laundry (add.), 5602 Devon street, Philadelphia, $2,500. Architect, private plans. Owners, Clark Brothers, on premises. Brick, 1 story add., 12x16 feet. Contract awarded to William F. Newbery, Otis Brilding, Philadelphia.

Pennsylvania Construction News

Apartments (alts.), 1604 Somerset Avenue, Somerset County, Windber, Pa. Architect, H. L. Reinhold, Jr., 1513 Walnut Street, Philadelphia. Owner, Wilmore Coal Co., Windber, Pa. Final plans in progress.

School, Forrest Avenue, Ambler, Pa. Architect, Watson K. Phillips, 215 South Fifth street, Philadelphia. Owner, Board of Education, G. Y. Styer, Pres., Ambler, Pa. Owner taking bids due July 27th, 8 P. M.

Grade School, Waynesboro, Pa. Architect, A. J. Klinkhoy, Hagerstown, Md. Owners, Waynesboro School Board, Waynesboro, Pa. Architect selected.

High School, Hughesville, Pa., $100,000. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Hughesville School Board,Charles Grittner, secretary, Hughesville, Pa. Semi-fireproof. 2 stories. Plans in progress.

Y. W. C. A. Building, Williamsport, Pa., $300,000. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Y. W. C. A., Mrs. H. W. Whitehead, 30 Central avenue, East Williamsport, Pa. Brick, steel, 4 stories. Plans in progress.

Service Station, Reading, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owners, Reading Auto Co., H. Koller, 126 North Fifth street, Reading, Pa. Brick, steel, 1 and 2 stories, 60x190 feet, slag roof, concrete floors, oil burner, electric light, tile work, steel sash. Plans in progress.

Residence, Temple road, Reading, Pa. Architect, E. Hickman, 148 South Fifth street, Reading, Pa. Owner, Karl Reisner, care of architect. Brick, 2 stories, 27x31 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Laundry, Seventeenth and Fairview streets, Reading, Pa. Architect, E. Hickman, 148 South Fifth street, Reading, Pa. Owner, H. E. Heffner, care of architect. Cinder block, 1 story and basement, 70x105 feet, slag roof. Plans in progress.

Residence, Reading, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owner, F. Palmer, 128 West Spruce street, Reading, Pa. Stone, 2½ stories, 31x60 feet, stucco, slate roof, hardwood flo,ors oil burner, electric light, tile work. Plans in progress.

School (add.), Oak Lane, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Oak Lane Country Day School, Oak Lane, Pa. Hollow tile, plastering, 2 stories, 35x100 feet, 3 class rooms, manual training, kitchen and cafteria additions. Plans in progress.

Theatre, Lewistown, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owner, David Cohen, Lewistown, Pa. Brick, steel, concrete, 750 seating capacity. Plans in progress.

Stores and Offices, Altoona, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owners, Silverman Brothers, Altoona, Pa. Lessee, Penn Central Power & Light Co., Altoona, Pa. New partitions. Plans in progress.

Residence, Sproul Boulevard, Villanova, Pa. Architect, Paul Cret, Otis Building, Philadelphia. Owner, C. H. Geist, Packard Building, Philadelphia. Complete renovation of buildings and grounds. Preliminary plans in progress. Too early for details.

High School, West York, Pa. Architects, Witman & Royer, 47 East Market street, York, Pa. Owners, West York School Board, care of architects. Fireproof, steel, brick, 2 stories and basement, 174x60 feet, composition roof, maple floors, composition floors, hollow tile ,safety treads, roof ventilators (heating, plumbing and electric separate), metal lath, rolled steel sash, ornamental rino. Plans in progress.

Residence, Eagle Farms, Haverford Township, Delaware County, Pa. Architect, Frank C. Watson, Chester, Pa. Owner, name withheld. Stone, stucco, 2 stories, 24x34 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Apartments (4), Sixteenth and Walnut streets, Chester, Pa. Architect, Frank C. Watson, Crozer Building, Chester, Pa. Owner, name withheld. Brick, 2 stories, 50x60 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Store (add. and alts.), Third and Wilson streets, Chester, Pa. Architect, Frank C. Watson, Crozer Building, Chester, Pa. Owner, name withheld. Brick, 2 stories, 20x50 feet, slag roof, pine floors, heating extension, electric light. Plans in progress.

Apartment and Store and Garage, Lansdowne, Pa. Architect, C. R. Brazier, Crozer Building, Chester, Pa. Owner, name withheld. Brick, fireproof, 4 stories, 100x150 feet, slag roof, hardwood floors, elevators, ornamental iron, iron stairs, tile work, steam heat or oil burner, electric light. Plans in progress.

Store and Apartments, Second and Liberty streets, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Gannett, Seelye & Fleming, 1 North Market Square, Harrisburg, Pa. Brick, steel, fireproof, 3 stories, 30x200 feet, slag roof, composition and hardwood floors, city heat, electric light, tile work, steel sash. Owners will build.

Church and Sunday School, Fourth and Maclay streets, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, St. John's Reformed Church, care of

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architect. Brick, steel, stone, 3 stories, 26x95 feet, composition roof, maple floors, steam heat, electric light, steel sash. Architect taking bids due July 14th.

Grade School, Carlisle, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Carlisle School Board, Thomas Vale, secretary, Carlisle, Pa. Fireproof, steel, 2 stories and basement, 119x80 feet, slate roof, maple floors, hollow tile, safety treads, roof ventilators, metal weather strip, dampproofing, ornamental iron, iron stairs, bond, steel sash, metal lath (heating, plumbing and electric separate). Owners will be ready for bids in two weeks.

Residence, Carlisle, Pa., $40,000. Architect, F. H. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, J. C. Lutz, Carlisle, Pa. Stone, 2½ stories, 39x69 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress. Will take bids.

Residences (9), Derry street, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, W. S. Harris, 219 South Thirteenth street, Harrisburg, Pa. Brick, 2 stories, 21x43 feet each, slate roof, pine floors, electric light. Owner will take sub-bids.

Residence, Carlisle, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owner, W. A. Sherk, Carlisle, Pa. Stone, stucco, 2½ stories, 38x31 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress. Owner will build.

Residences and Garages (16), Drexel Hill, Pa., $17,000 to $20,000. Architect, private plans. Owners, Gerhart Brothers, 6912 Market street, Upper Darby, Pa. Stone, brick, frame, stucco, 2½ stories, 24x42 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans completed. Owners will build.

School, Dallastown, Pa. Architects, Gimmell & Billmeyer, Rosenmiller Building, York, Pa. Owners, St. Joseph's Roman Catholic Church, Rev. Magee, Dallastown, Pa. Brick, steel, 2 stories, 86x95 feet, slag roof, maple floors (heating, plumbing and electric reserved). Architects ready for bids.

School (alts. and add.), (Edgmont No. 2), Gradyville, Delaware County, Pa. Architect, Newton Flounders, Media, Pa. Owners, Board of Education, Gradyville, Delaware County, Pa. Stone, concrete block, 2 stories, 100x43 feet (heating, plumbing, electric separate bids), slate roof, maple floors, roof ventilators, metal window guards, bond, ornamental iron work. Plans about completed. Architect will be ready for bids in 10 days.

Residence, Yeadon, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Howard Swope, Fifth and Main streets, Darby, Pa. Stone ,frame, 2½ stories, 40x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans completed. Ready for general bids in two weeks.

Residences and Garages (4), Penauth road and Trevor lane, Cnywyd, Pa., $12,000 each. Architect, private plans. Owner, Harold H. Hoppold, 112 South Twentieth street, Philadelphia. Stone, stucco, 2½ stories, hot water heat, electric light, tile work, slate roof, hardwood floors, tile work. Owner ready for subbids.

Church, Lansdowne, Pa. Architects, Bureau of Architecture of Methodist Episcopal Church, 1709 Arch street, Philadelphia. Owners, Lansdowne Methodist Episcopal Church, Lansdowne, Pa. Stone, brick, reinforced concrete, steel, 2 stories and basement, 88x35 feet, slag roof, cement and composition floors, metal lath, hollow metal sash, kalamein doors, ornamental iron work, demolition, steel partitions, painting and glazing. Architects taking bids due July 12th.

Hotel (''Sky Top Lodges''), Canadensis, Pa. Architects, Rossiter Muller and Mortimer Foster, 15 West Thirty-eighth street, New York. Owners, Pocono Hotel Corporation, Mt. Pocono, Pa. Brick, reinforced concrete, steel, 4 stories and basement, 189x54 feet, wings (2) 105x46 feet, wing 58x71 feet, slag, blue gray slate roof, cement and birch floors, painting and glazing, waterproofing and dampproofing, metal lath, tile and marble work, rolled steel sash, fire and hollow metal doors, bond, iron stairs, ornamental iron work, elevator gratings (kitchen equipment, refrigerating equipment, electric work, heating, plumbing, ventilating, elevators reserved). Architects taking bids due July 12th.

Church and Rectory (add. and alts.), Minersville, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, Our Lady of Mt. Carmel Roman Catholic Church, Rev. J. C. Veitt, Minersville, Pa. Brick, steel, reinforced concrete, 1 story and basement, and 3 stories and basement, 24x46 feet, 20x46 feet, asbestos shingle roof, pine and composition floors, electric light, tile work. Architect taking bids due as soon as possible.

Park Grade School, Willow Grove, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Abington Township School, Glenside, Pa. Concrete block, stucco, brick, steel, 1 story and basement, 88x40 feet (plumbing, heating, electric separate), Barrett Specification roof, cement floors, pine floors, painting and glazing, rolled steel sash, waterproofing, ornamental iro nwork. Owners taking bids due July 12th.

Residence and Garage, Elmwood, York County, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owner, W. B. Gemmel, York, Pa. Brick, 2½ stories, 40x60 feet, slag roof, hardwood floors, tile work, hot water heat, electric light. Owner taking bids.

Residence, Penn Side, Reading, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owner, Fred Lang, care of architect. Cinder block and stucco, 2½ stories, 28x32 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids.

Sunday School Building, Chestnut street and Heather road, Stonehurst, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, J .R. Miller Memorial Presbyterian Church, care of Mr. Agniu, care of Jump House Wrecking Co., Forty-third and Woodland avenue, Philadelphia. Stone, cast stone, 1 story, basement and balcony, 73x55 feet, block, slate and slag roof, cement and pine floors, plumbing, steam heat, electric light, metal lath, tile work, bond, ornamental iron work, area gratings, brass work. Owners taking bids.

Bank and Post Office (alts.), Drexel Hill, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, Drexel Hill Title & Trust Co., Drexel Hill. Architects taking bids due July 9th.

School, Forrest avenue, Ambler, Pa. Architect, Watson H. Phillips, 213 South Sixth street, Philadelphia. Owners, Board of Education, G. Y. Styer, president, Ambler, Pa. Local stone, slag roof, fireproof stairways and corridors. Plans ready for general contractors. Bids due July 27th.

High School, Shippensburg, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, School Board, C. E. Warren, secretary, Shippensburg, Pa. Brick, 2 stories, slate roof, hardwood and concrete floors (heating, plumbing and electric separate). Owners taking bids due July 16th at noon.

High School, Manchester Borough, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, Manchester Borough School Board, care of architect. Brick, 1 story, 60x90 feet, composition roof, maple floors (heatinb, plumbing and electric separate). Architect taking bids due July 12th.

Office Building, Marcus Hook, Pa. Architect, W. A. Courtney, Chester, Pa. Owners, Sun Oil Co., Marcus Hook, Pa. Brick, steel, 2 stories and basement ,65x38 feet, slag roof, cement and pine floors. Architect taking bids due as soon as possible.

Sewer, Glenolden, Pa. Engineers, Damon & Foster, Upper Darby, Pa. Owners, Borough of Glenolden, H. C. Simon, Glenolden, Pa. Owners taking bids due July 8th, 8 P. M. (Daylight Saving Time). Certified check, $100.

School (add.), Marcus Hook, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Phila-

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delphia. Owners, School District of Lower Chichester Township, Delaware County, Pa. Low bidders: Holden Const. Co., Chester, Pa., $31,500. Plumbing, William P. Fowden, Chester, Pa., $1,510. Electric, Vernon Elec. Co., Chester, Pa., $522. Heating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $449.

Church-School (add.), Scranton, Pa. Architects, H. L. Cain and A. N. Dobbins, 1709 Arch street, Philadelphia. Owner, Elm Park Methodist Episcopal Church, Rev. W. M. Gray, Scranton, Pa. Low bidder: E. S. Williams, Scranton, Pa.

Pennsylvania Contracts Awarded

Residence and Garage, Drexel Hill, Pa. Architect, Watt and Coscia, 1504 Locust street, Philadelphia. Owner, L. Volotti, 502 Liberty Building, Philadelphia. Stone, 2½ stories, 30x52 feet, 25x19 feet, shingle roof, hardwood and cement floors, plumbing, tile work, vapor heat, electric light. Contract awarded Frank Lucci, 1603 Ellsworth street, Philadelphia.

Women's Club and Memorial Library, Lavering Mill road, Bala, Pa. Architects, Savery and Scheetz, Stephen Girard Building, Philadelphia. Owners, Women's Club of Bala-Cynwyd, Mrs. S. Stephenson, president, Bala; Dr. Quinn, Board of Trustees, Cynwyd, Pa. Brick, stone, cut stone, 1 story and basement, 69x45 feet, memorial building 32x57 feet (plumbing, heating, electric, library equipment reserved), variegated slate and slag roof, pine, cement and maple floors, metal lath, tile work, floor hardener, ornamental iron work, Duraflex floors, painting and glazing, bluestone, flagstone, limestone, area gratings, magnesite floors. Contract awarded Fred A. Havens Co., 845 North Nineteenth street, Philadelphia.

Residence and Garage, Devon, Pa. Architects, Tilden, Register and Pepper, 1520 Locust street, Philadelphia. Owner, Hon. George Wharton Pepper, Land Title Building, Philadelphia. Stone, cut stone, concrete, brick, steel, 2½ stories and basement ,141x25 feet, wing 81x25 feet, wing 23x33 feet, slate or shingle roof, oak and pine floors, walnut and cement floors, electric light, metal lath, tile and marble work, hollow metal sash, ornamental iron work, bond, flagstone, aquia stone, limestone, area gratings, canvas and copper roof, brass pipe, plumbing. Contract awarded Schroeder & Wood, 125 South Fifth street, Philadelphia.

Seminary Building, Cornwells, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Holy Ghost Apostolic Seminary, Rev. J. J. Callahan, Cornwells. Stone, cut stone, steel, brick, 3 stories and basement, 50x50 feet each, slate and slag roof, cement and pine floors, roof ventilators, shoring, ornamental iron work, iron stairs, bond, tinclad and kalamein doors, rolled steel skylights, tile and marble work, metal lath, soundproofing, demolition, dumb waiters. Contract awarded P. H. Kelly, 1713 Sansom street, Philadelphia.

Residence (alts. and add.), Devon, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, Alan Crawford, Devon, Pa. Carpentry and mill work, plastering, painting and glazing, heating alts.), electric work, plumbing, iron work. Contract awarded E. R. Hall, 34 South Seventeenth street, Philadelphia.

Residence (alts. and add.), Latches Lane, Merion, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, Dr. E. C. Kirk, on premises. Demolition, stone work, cement work, iron work, carpentry and mill work, pine floors ,shingle roof, plastering, painting and glazing, hardware, plumbing, hot water heat, electric light. Contract awarded W. N. Thompson, Highland Park, Pa.

Residence, Rosemont, Pa. Architects, Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owner, Donald McIlvaine, Esq., Rosemont, Pa. Brick, 2½ stories and basement, 60x24 feet, garage, 20x20 feet, slate and alternate tile roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work, flagstone. Contract awarded Metzger, Fisher & White, Otis Building, Philadelphia.

Rhoads Hall (alts. and add.), Ashley, near Newtown, Pa., $95,000. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Pennsylvania Hospital, Department of Mental and Nervous Diseases, Ashley, Pa. Stone, brick, steel, stucco, 2½ stories and basement, 70x52 feet, Vermont slate and slag roof, cement, oak and pine floors, hollow tile, metal weather strip, waterproofing, ornamental iron work, iron stairs, bond, kalamein doors, copper skylights, tile, marble and terrazzo work, hot water heat, electric light, metal lath, flagstone, linotile, demolition, painting and glazing, plumbing, brass pipe. Contract awarded Metzger, Fisher & White, Otis Building, Philadelphia.

Church, Bryn Mawr, Pa. Architects, Karcher & Smith, 34 South Seventeenth street, Philadelphia. Owners, Bryn Mawr Presbyterian Church, Bryn Mawr, Pa. Stone, cut stone, limestone, brick, steel, 1 story and balcony and basement, ground floor, 72x112 feet, variegated slate roof, linoleum, cement and oak floors, hollow tile, plumbing, steam heat, electric light, metal lath, bond, ornamental iron work, waterproofing, artificial stone, flagstone, oil burners, akoustolith tile work, metal casement, leaded glass, safety treads, area gratings, acoustican system. Contract awarded Doyle & Co., 1519 Sansom street, Philadelphia.

Residence, Essex avenue, Lansdowne, Pa. Architects, Powell Const. Co., Ardmore, Pa. Owner, Henry M. Taws, 920 Arch street, Philadelphia. Cinder block, stucco, 2½ stories, 37x33½ feet, slate roof, oak and pine floors, hot water heat, electric light. Contract awarded Powell Const. Co., Ardmore, Pa.

Manufacturing Building, Croyden, Pa. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Largman-Gray Co., Torresdale and N street, Philadelphia. Details undecided. Plans in progress. Contract awarded Nelson Pedley Const. Co., Corn Exchange Building, Philadelphia.

High School, Northampton, Pa., $175,150. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Northampton School Board, Northampton, Pa. Brick, steel, 2 stories, 115x200 feet, composition roof, composition and hardwood floors ,safety treads, metal lath ,steel sash, iron stairs. Contract awarded to C. W. Strayer, Thirteenth and Thompson streets, Harrisburg. Electric to Bethlehem Elec. Supply Co., Bethlehem, Pa., $7,838. Plumbing to W. H. Taylor & Co., Allentown, Pa., $10,895. Heating bids rejected. Will take new heating bids later.

Building, York, Pa. Architect, J. B. Hamme, City Bank Building, York, Pa. Owners, Manufacturers' Association of York, R. Gephart, York, Pa. Brick, fireproof, 3 stories, 66x55 feet, tile roof, hardwood floors, steam heat, electric light, metal lath, tile, marble and terrazzo work, hollow tile, safety treads, elevators, iron stairs. Contract awarded to Hess Brothers, Grantly street, York, Pa.

Houstonville School (add.), South Coatesville, Pa., $55,800. Architect ,H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, South Coatesville School Board, care of architect. Brick, 3 stories, 60x80 feet, 50x60 feet, steel, slate roof, maple floors (heating, plumbing and electric separate), metal lath, steel sash, iron stairs, safety treads, roof ventilators. Contract awarded to D. S. Warfel, 452 North Prince street, Lancaster, Pa. Heating and plumbing to G. Scott & Son, Coatesville, Pa. Electric to P. Sherer, Coatesville, Pa.

Bank, Saltsburg, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, First National Bank of Saltsburg, Saltsburg, Pa. Limestone, marble, 1 story, 40x60 feet, tile and marble, ornamental iron. Contract awarded to Carstensen & McLain, Johnstown, Pa.

Church, Lemoyne, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, First United Brethren Church, Lemoyne, Pa. Brick, 1 story and basement, 53x70 feet, slate roof, pine floors. Contract awarded to W. A. Sherk, Carlisle, Pa.

Sunday School, Highspire, Pa. Architect, F. G. Hahnestock, Patriot Building, Harrisburg, Pa. Owners, Highspire United Brethren Church, Highspire, Pa. Brick, steel, 1 story, basement and gallery, 70x49 feet, slate roof, pine floors, electric light. Contract awarded to W. A. Sherk, Carlisle, Pa.

Residences (10), Fifteenth and Naudain streets, Harrisburg, Pa., $50,000. Architect, private plans. Owner, T. Green, Walnut and Court streets, Harrisburg, Pa. Brick, 2½ stories, 18x32 feet, pine floors, electric lighting. Contract awarded to Malcolm Gettys, Harrisburg, Pa.

New Jersey Construction News

Sales and Office Building, New Brunswick, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, E. E. Waller and Son, Paterson and Schuyler Sts., New Brunswick, N. J. Brick, steel, 2 stories and basement, 67x166 feet, Johns Mansville Roof, concrete and maple and terrazzo floors, roof ventilators, steel sash, tile and marble work. Architect taking bids due July 10th.

Service Building, Bellevue avenue, Trenton, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, Mercer Hospital; W. Schulte, Prospect and Bellevue streets, Trenton, N. J. Sketches in progress.

High School (alts. and add.), Wildwood, N. J. Architect, V. B. Smith, Atlantic City, N. J., L. H. Boyer, Wildwood, N. J. Owners, Board of Education, William Todd, secretary, Wildwood, N. J. Brick, architectural terra cotta, cut stone, steel, 2 stories and basement ,124x131 feet (plumbing, heating and electric separate bids), slag roof, mineral and

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cement floors, hollow tile, safety treads, roof ventilators, dampproofing, ornamental iron work, bond, hollow metal doors, metal lath, cinder concrete block, granite, limestone, metal partitions, steel stairs. Owners taking bids due July 13th.

Bank, Collingswood, N. J. Architect, John T. Brugger, Public Ledger Building, Philadelphia. Owners, Collingswood Trust Co., Collingswood, N. J. Brick, limestone, 3 stories, 50x85 feet (plumbing, heating and electric separate bids), slag roof, cement floors, tile work, ornamental iron work. Architect taking bids due July 12th at noon.

Administration Building, Sixth and Fulton streets, Camden, N. J. Architect, Paul Cret, Otis Building, Philadelphia. Owners, Delaware River Bridge Commission (Joint), Widener Building, Philadelphia. Brick, steel, granite, limestone, 3 stories and basement, 105x45 feet, slag and tile roof, cement floors (plumbing, heating equipment, drainage separate bids), marble work, bond. Certified check, $10,000. Deposit, $25, refunded. Owners taking bids due July 14th, 1.30 P. M. (Standard Time).

Schools (2), Maple Shade, N. J. Architect, Arnold H. Moses, Camden, N. J. Owners, Board of Education, Chester Township, Maple Shade, N. J. Brick, 2 stories. Owners taking bids due July 15th.

Garage and Shop, Lakeland, N. J. Architect, A. H. Moses, Camden, N. J. Owners, Tuberculosis Hospital, Camden County, N. J. Owners taking bids due July 8th, 2 P. M. (Daylight Saving Time).

Hotel, Brigantine Beach, N. J. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Engineers, Day & Zimmerman, 1600 Walnut street, Philadelphia. Owner, name withheld. Brick, steel, concrete, stone, 5 stories, 150 rooms, steam heat, electric light, slag roof, cement and hardwood floors, elevator, tile and marble work. Engineers will build, ready for subbids.

Building, rear 931 Market street, Camden, N. J., $8,000. Architect, private plans. Owners, R. M. Hollingshead Co., Ninth and Cooper streets, Camden, N. J. Brick, 2 stories, 77x82 feet, slag roof, steam heat, electric light. Permit issued.

School, Deep Water, Salem County, N. J. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Lower Penn's Neck, N. J. Low bidders: Harry Cawley, Pennsgrove, N. J., $36,446; G. W. Shaner & Son, Palmyra, N. J., $38,616. Al lbids rejected.

Road Work, Mercer County, N. J. Owners, Board of Freeholders, Mercer County, Court House, Trenton, N. J. Reconstruction of Trenton-Pennington road, Ewing and Hopewell Townships. Lowest bidder: Michael Staub, Trenton, N. J., $499,000.

New Jersey Contracts Awarded

Residence, Bellevue avenue, Trenton, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owner, C. P. Weeden, 217 Brunswick avenue, Trenton, N. J. Brick, 2½ stories, 33x26 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Griffith & Watkins, Trenton, N. J.

Elaine Oil Tank House, Compounding Building (add.), First Aid Building, Paulsboro, N. J. Architect, private plans. Owners, Vacuum Oil Co., Paulsboro, N. J. Brick, steel, 1 story and 2 stories, various sizes, slag roof, cement floors, hollow tile, rolled steel sash. Contract awarded White Const. Co., Jefferson Building, Philadelphia.

Residences and Stores, 354-62 Atlantic avenue, Camden, N. J., $25,000. Architect, Louis J. Tonk, 1505 Race street, Philadelphia. Owners, Herbert Realty Co., Camden, N. J. Brick, 2 stories, 15x46 feet, slag roof, hot water heat, electric work. Contract awarded to Max Goldich, 227 Federal street, Camden, N. J.

Fan Room and Summer Ventilating System, Camden, N. J. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Stanley Theatre, on premises. Contract awarded W. Edward Pierce, 1600 Arch street, Philadelphia.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J.

Luppatcong Creek Bridge, Route No. 4, on State Highway, Section 34, Keyport Cutoff, Monmouth County. Contract awarded to Arnolt-Moore, Inc., 45 Clinton street, Newark, N. J., $31,360.

Hunterdon County, Route 9, Section 16A, Bloomsbury-West Portal. Contract awarded to McInerney & Moncal, Easton, Pa., $180,891.50.

Gloucester County, Route 20, Sec. 6, Franklinville-Malaga. Contract awarded to William Eisenberg, Smith-Austermuhl Building, Camden, N. J., $170,594.17.

Essex and Hudson Counties, Route 1, extension from Marcy avenue, Jersey City, to Blanchard street, Newark, N. J., resurfacing. Contract awarded to C. R. Cavanaugh, Bayonne City, N. J., $205,871.70.

Miscellaneous Construction News

Shrine Chapel of Our Lady of the Rosary, Syracuse, N. Y. Architect, Emil G. Perot, 1211 Arch street, Philadelphia. Owners, Dominician Sisters of the Perpetual Rosary, Syracuse, N. Y. Architect taking bids on revised plans due July 12th.

Residences (2), 2113-15 West Seventh street, Wilmington, Del., $8,000. Architect, private plans. Owner, F. Giarannozza, 2126 West Eighth street, Wilmington, Del. Brick, cinder block, 22x28 feet, 2 stories, slag roof, pine floors, hot water heat, electric light. Permit issued.

Store and Residence, Northwest Corner Maryland and Beech streets, Wilmington, Del. Architect, private plans. Owner, Anthony Stupenski, 1701 Delaware avenue, Wilmington, Del. Brick, 2 stories, 23x49 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Miscellaneous Contracts Awarded

Dormitories (4), Concord, N. H. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, St. Paul's School, Concord, N. H. Brick, reinforced concrete, steel, 3 stories, 32x200 feet each, central heat, electric light, slate roof, cement and wood floors, truck lifts, rolled steel sash. Contract awarded George MacCombe, Boston, Mass.

Residence and Garage, Selbourne Farms Tract, Centreville, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owners, Colonel William Spruance, Centreville, Del. Stone, frame, 2½ stories and basement, 62x78 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Contract awarded to J. R. Craig, Wilmington, Del.

Residence, 2321 Pennsylvania avenue, Wilmington, Del., $9,000. Architect, private plans. Owner, Ernest Lomox, 610 West Twenty-sixth street, Wilmington, Del. Cinder block, 2 stories, 21x31 feet, composition roof, pine floors, hot water heat, electric light. Contract awarded to C. W. Griec, Newark, Del.

(Continued from page 420)

builder cannot afford to neglect a survey of both public and private garage construction in his territory as a basis for future business.

Reliable statistics estimate that more than 35 per cent of the automobiles in the United States are daily kept in public garages. This fact gives definite importance to the public garage and its effect on the building trades.

The present concentrated drive by government officials, health authorities and physicians against the carbon monoxide peril in motor car garages offers an important item for the consideration of all contractors and builders.

Agitation against this insidious poison has apparently reached its height this spring. In every state and large community health officials, government officers and powerful associations are taking

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up the fight against carbon monoxide to prevent its tremendous loss of life.

Just how does this affect the building trades?

To understand the deadly work of carbon monoxide provides the clew. Created by the operation of internal combustion engines, of which the automobile engine is a type, carbon monoxide gas is released through the exhaust pipe. It gets in its deadliest work chiefly in the garage where it is usually confined because of a lack of proper ventilation precaution. But from one and one-half to three minutes is all that is necessary to cause death when exposed to this gas, in the opinion of medical authorities, and insurance investigators agree that it is one of the most deadly of gasses, particularly because it attacks without warning and gives the individual but small opportunity to escape from its ravages.

More than eight million of these 23,000,000 automobiles of 1926 will be kept in public garages, and it is that carbon monoxide is most dangerous. Obviously, in constructing a modern weather and

PHILADELPHIA AS A BUILDING CENTER

Official Figures Showing in Detail the Constructive Activity of the First Six Months of 1926

New Buildings Erected from January 1 to June 30, 1926

	Jan.	Feb.	Mar.	Apr.	May	June	Operations	Estimated Cost
Places of Amusement		1				2	3	$495,000
Banks	2			1		1	4	480,000
Churches	1	2	1	3	2	2	11	631,550
Convents			1			1	2	197,000
Dwellings, one-story				4	1	4	9	29,100
" two-story	469	414	1460	1119	761	742	4965	23,582,225
" three-story	22	53	32	15	43	19	184	1,896,300
" frame	4	12	24	20	8	8	76	412,350
Engine and Boiler Houses		2		2	2	1	7	79,250
Garages	69	63	159	252	206	157	906	2,616,235
Halls	1						1	196,000
Hospitals	1				2	1	4	857,000
Hotels		1				1	2	635,000
Manufactories	4	3	7	9	7	10	40	4,507,650
Miscellaneous Buildings	1	2	9	8	5	11	36	553,975
Municipal Buildings				2		1	3	1,963,800
Office Buildings	3	3	7	4	2	6	25	4,444,850
Parish Buildings						1	1	40,000
Power Houses		2	2			1	5	250,750
Rooming Houses		1					1	110,000
Sesqui-Centennial Buildings	1	2	4	12	22	67	108	4,229,455
Schools	1	3	1	1	3		9	5,422,505
Stables			1				1	1,000
Stores	4	14	8	21	11	21	79	1,338,800
Tenement Houses	2	1	10	12	4	6	35	4,507,000
Warehouses	5	9	10	11	8	7	50	2,218,615
Workshops	6	2	7	7	5	3	30	219,275
Total New Buildings	596	590	1743	1503	1092	1073	6597	$61,914,685
Additions	124	119	229	325	276	274	1347	4,137,995
Alterations and Repairs	254	241	354	428	368	361	2006	3,519,900
Grand Total							9950	$69,572,580
Fire Escapes							46	28,780
Heaters							10	6,175
Signs							287	101,825
Miscellaneous Work							845	490,140
Total Work of All Kinds							11,138	$70,199,500

TWO-STORY DWELLINGS—Including Two-Story Stores and Dwellings

Wards	5	18	21	22	23	24	25	27	33	34	35	36	38	39	40	41	42	43	44	45	46	48	Totals
January	..	..	14	2	..	..	..	3	106	116	90	..	..	..	5	27	103	..	..	1	2	..	469
February	..	..	..	26	77	..	..	..	1	16	33	..	16	..	155	32	32	..	..	26	..	..	414
March	..	..	7	93	54	..	10	..	21	23	309	..	35	..	291	130	463	..	..	24	..	..	1460
April	..	..	2	59	37	1	..	..	64	..	471	1	84	..	11	195	90	36	1	25	..	42	1119
May	1	7	6	4	2	..	..	..	46	83	197	..	15	23	75	5	291	4	..	2	..	..	761
June	..	..	6	51	4	..	17	..	..	199	81	..	23	..	78	38	235	..	..	10	..	..	742
Totals	1	7	35	235	174	1	27	3	238	437	1181	1	173	23	615	427	1214	40	1	88	2	42	4965

THREE-STORY DWELLINGS—Including Three-Story Stores and Dwellings

Wards	1	2	3	4	5	7	11	13	15	21	22	23	34	35	36	40	41	42	46	47	Totals
January	..	..	1	..	..	..	..	5	..	..	2	..	6	2	2	..	4	..	..	..	22
February	..	..	..	..	..	1	..	..	..	1	..	1	..	2	1	8	..	39	..	..	53
March	2	..	..	..	..	1	..	..	1	3	8	..	3	3	4	4	..	2	..	1	32
April	..	..	..	..	4	..	1	..	..	1	..	..	..	2	..	..	2	5	..	..	15
May	..	..	..	6	..	..	..	..	..	2	2	1	6	6	2	..	..	1	17	..	43
June	..	1	..	..	..	..	..	..	..		10	..	1	2	2	..	1	1	..	1	19
Totals	2	1	1	6	4	2	1	5	1	7	22	2	16	17	11	12	7	48	17	2	184

storm proof building, contractors and builders have perhaps not prepared for the release of this poisonous gas flow in the garage.

Herein lies the opportunity for every contractor and builder to assist, not only in increasing their own profits, but in eliminating a great national health hazard whose enormous death toll increases each year directly in proportion to the increases in the use of motor vehicles.

Every garage, large or small, should have adequate provisions for the removal of carbon monoxide gas fumes through the installation of a proper and approved ventilating system. It is in this respect that the contractor and builder should make a mental note in his survey for future business. Countless new garages are built each day, and great is the opportunity in this field for increased business. The inclusion of an adequate ventilation system should be made in the cost estimate to the owner, and this important item should be stressed further by calling the attention of the owner to the local regulations governing such installations.

There are but few communities in which the terrific toll of carbon monoxide gas is unknown, and every day's news tells further of this fatal gas. No garage builder can fail to be impressed of the danger of a running engine in a closed garage, because of the unhealthy effect on his workmen. While many states and cities have passed laws and ordinances governing the ventilation of garages, the contractor and builder is allotted the opportunity of creating further standards in health work. To the contractor who will take the time and trouble to drive home the point of proper ventilation is due great credit in assisting to improve the health conditions of his community.

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Franklin Fourth Street National Bank

Chestnut Street West of Broad

Philadelphia, June 30, 1926

RESOURCES

Loans and Investments	$99,513,106.71
United States Bonds and Certificates	10,793,295.97
Customers' Liability Under Letters of Credit and Acceptance	1,865,798.24
Interest Earned Uncollected	480,109.92
Due from Banks	29,970,515.57
Cash and Reserve	9,724,448.30
Exchanges for Clearing House	9,166,279.65
	$161,513,554.36

LIABILITIES

Capital	$6,000,000.00
Surplus	15,000,000.00
Undivided Profits	3,311,498.75
Reserve for Taxes, etc	164,725.62
Discount and Interest Unearned	208,829.66
Letters of Credit Issued to Customers and Acceptances	2,054,183.74
Acceptances of Other Banks Sold	31,000.00
Deposits	134,743,316.59
	$161,513,554.36

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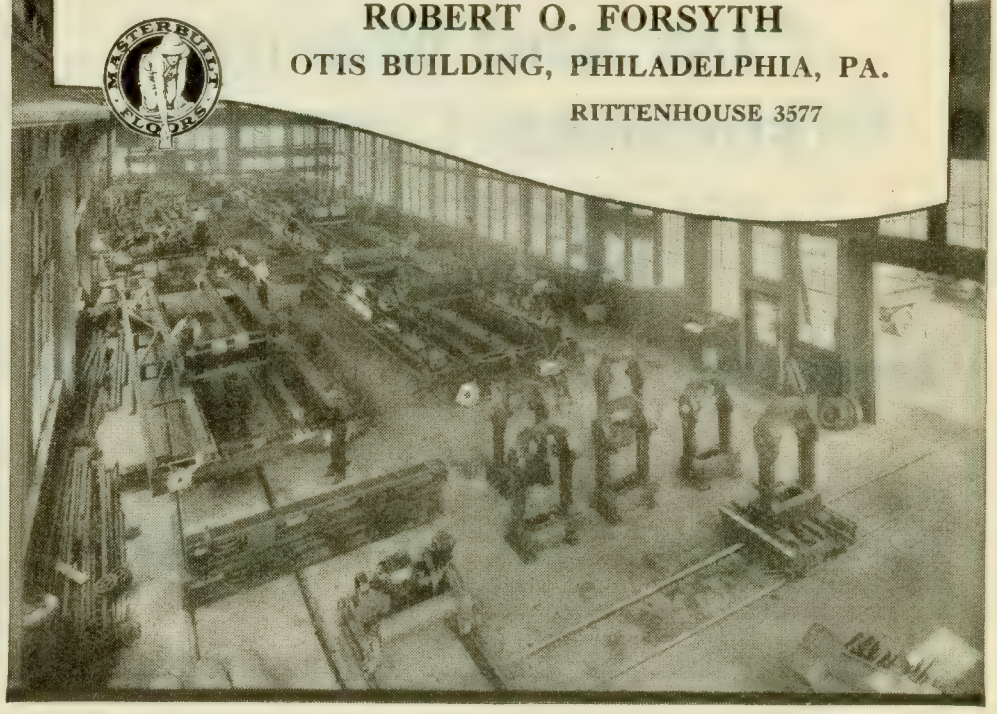
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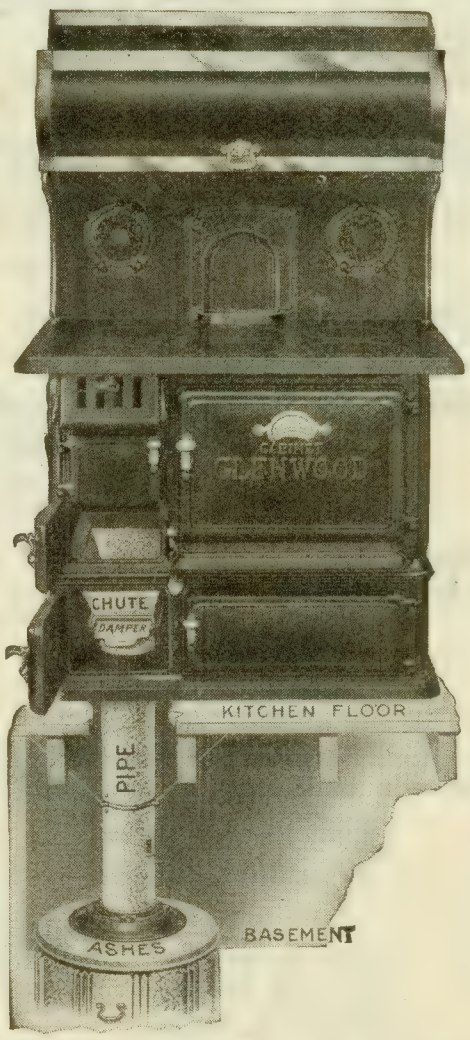
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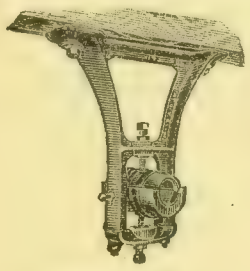
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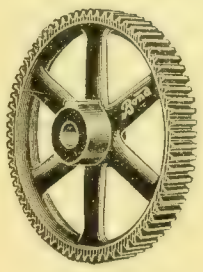
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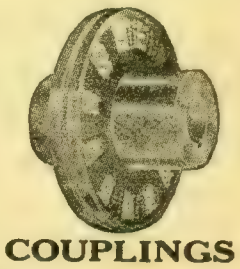
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July 14, 1926

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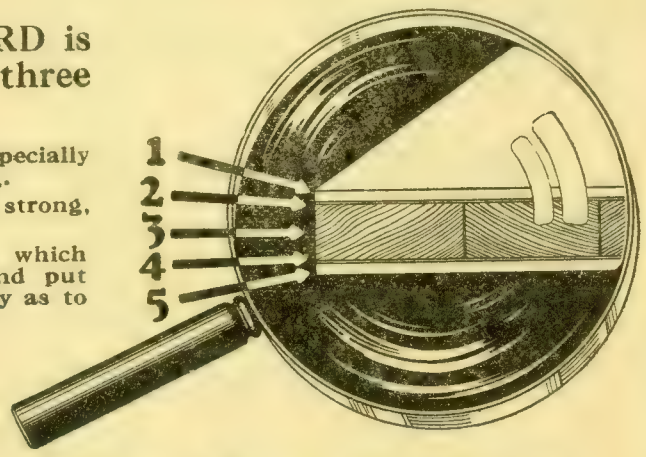
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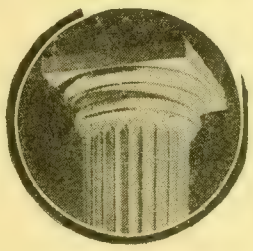
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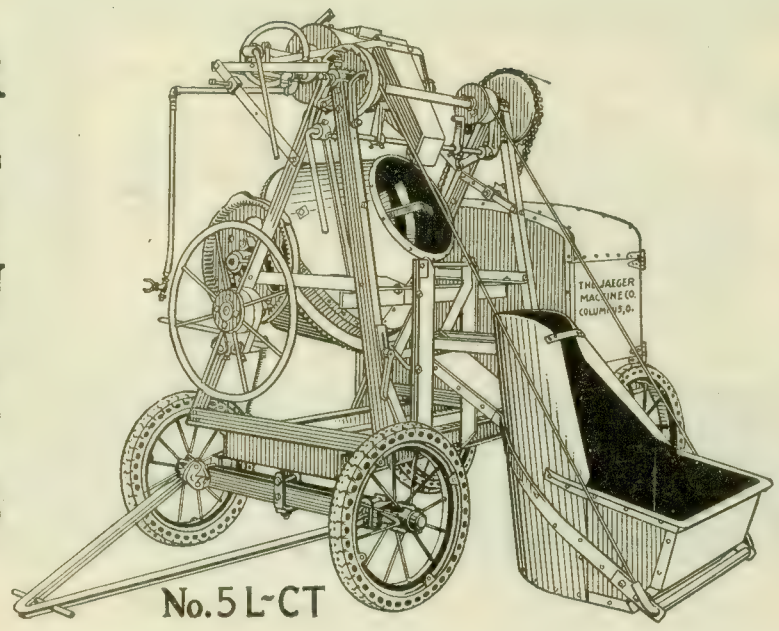
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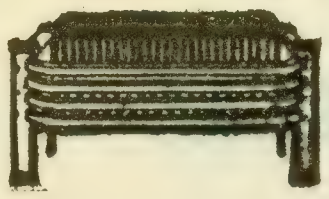
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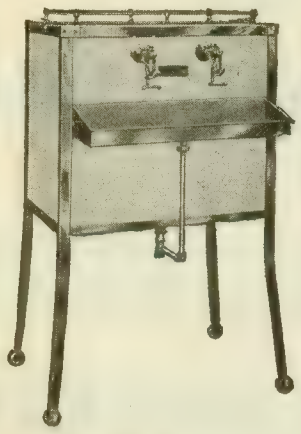
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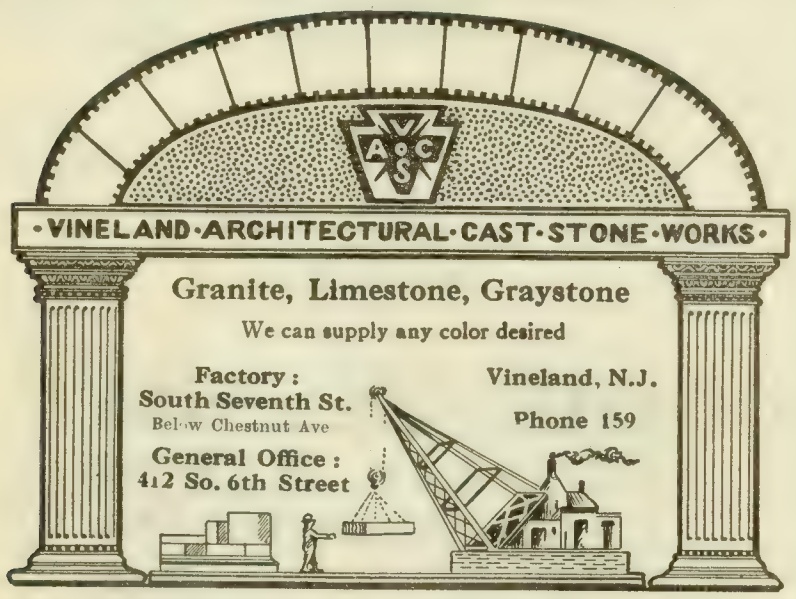
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 28

PHILADELPHIA
July 14, 1926

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As The Editor Sees It

THERE IS NO SUBSTITUTE*

J. S. Elwell†

Lime is indispensable in construction. It has always been used; it is used today and it will be used whenever and wherever economical and permanent building is done. The extent to which it is used will always depend on how generally and forcefully its advantages are kept before the public. Certain properties are universally accepted, but many of the most important advantages of lime in the construction field are not fully appreciated.

Stucco, Plaster, Mortar and Concrete are the general divisions of construction into which lime enters, and a few of its advantages in each will be briefly presented.

Stucco

Stucco is fundamentally a covering to conceal and protect whatever method of construction is used. It must be composed of materials which withstand all weather conditions, and the proof that lime stucco meets this requirement is its universal use. The excessively wet climate of England has not effected it in hundreds of years. Germany knew no other stucco in the past and does not today. In hot, dry eMxico lime stucco is used exclusively today just as it was generations ago. The long cold winters of New England do not bother the lime stucco that has stood there for many years.

Lime stucco is adaptable to any type of construction from the small house to the largest office building as demonstrated by its use on the Sesqui-Centennial buildings at Philadelphia and on the fourteen story office building in San Francisco.

Also it is just as satisfactory on frame construction as it is on masonry; in fact it is often applied to both backings on the same building. On properly furred metal or wire lath lime will accommodate itself, to the inevitable settling and shrinking of frame buildings. The gradual hardening of lime over a considerable time avoids cracking on any acceptable construction.

The first or scratch coat is mixed somewhat rich in lime and with the proper amount of hair or fibre. It is applied as a heavy coat with sufficient pressure to give a firm key back of the lath. The pressure the plasterer must exert with lime stucco is less than with substitutes.

The first application is deeply scratched to give the best possible bond for the next coat. It is customary to allow the scratch to dry out for several days so that the stucco will develop its shrinkage and the building take the load. When all coats of a quick setting stucco are put on in quick succession the settlement caused by the weight of the stucco added to its shrinkage may cause unsightly cracks.

With lime the building is given time to gradually adjust itself while the three coats are being applied. There is no danger in rapid completion of a lime job after the first coat is partly set. The last two coats being light in weight and lean in cementing material are not subject to much shrinkage.

The addition of some gauging material is advocated and it may have some advantages, but many feel the use of too much will destroy the gradual adjustment of lime stucco.

The east with which lime is worked is probably its best known property, and nowhere is this advantage more in evidence than in the stucco finishes. Any desired effect of color or texture is obtainable,

*Presented before the Eight Annual Convention, National Lime Association, June 8 to 11, 1926, French Lick, Ind.

†Manager, Construction Department, National Lime Association.

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and uniformity is assured for the plasterer is not hurried as when using a quick setting material.

In general, all large builders who have made a study of the economy and durability of stuccos are led straight to lime. This is true in Philadelphia, Columbus, and Minneapolis and there is no reason why a more general understanding of the problem would not increase the field. Lime is the original stucco material and it is the best today, in spite of the many attempts to prove up substitutes by high pressure methods.

Plaster

No use of lime is more important than interior plastering. Everyone knows that lime is used for plaster, but few have any conception of the fundamental difference between plasters. The rust resisting, fire retarding and sound insulating properties of lime plaster have been swamped in the flood of propaganda that has been put out in the last 20 years.

Whether wood lath or metal lath are used, the durability of plaster is dependent on the action of that plaster on metal. If the metal lath or the nails in the wood lath are not protected from corrosion, the plaster is liable to failure and occupancy of a building may be actually hazardous.

It has long been known that lime prevents rust, and in recent tests run at the Rock Island Arsenal it was shown that corrosion was absolutely prevented by lime, while rusting had started on similar specimens exposed to air. Specimens tested in another commercial plaster were found to have "corrosion well developed."

Microphotographs show clearly that on the specimen exposed to moist air, rust had started to spread from the impurities in the steel. The surface of the metal tested in the other plaster was very dark and proves conclusively that this material attacks metal when moisture is present. It is well known that corrosion once started never stops. Under the same conditions lime prevented the start of corrosion and if it does not start it will never cause a failure in a ceiling.

It is very important that plaster be a fire retardant. Fire departments are given the right of way over all other traffic in order that they may get to the fire before it has had time to spread. If that fire can be confined inside the room where it starts just a few moments longer by some certain plaster, that plaster will prevent many serious fires. Few conflagrations spring forth full grown, for almost every fire is small at the start and it is only the ones that are not confined that are serious.

Many tests have been made with plsat-their relative merits in the average starters under extreme fire conditions, but no comparative tests have been made to show ing fire. In—and perhapsthanks to—the absence of laboratory tests with the smaller fires, we must fall back on the practical experience of fire fighters for this information. Among the several fire chiefs that have stated their experience, Chief Alexander Henderson of Kansas City, Mo., has best put their opinion, writing: "My experience has been that in buildings containing lime plaster, fires were more easily confined to their place of origin."

Next, consider acoustics. We have control over our eyes so that we need not see anything we wish to avoid, but our ears receive sounds whether we wish to hear them or not. This shortcoming makes it very important that our partitions be good insulators of sound.

The relative merits of different wall plasters in respect to sound are very difficult to fix. We can see two lights at the same time and easily tell which is the brightest, but we cannot be in two rooms at once and sense which is the quietest.

The fact that buildings plastered with lime plaster were quieter and more restful has long been known, but the full degree of difference between plasters has not been realized.

(Continued on page449)

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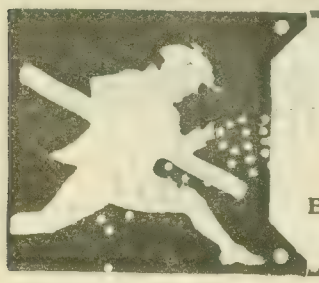
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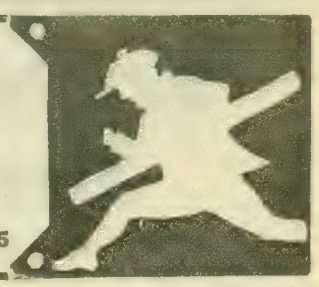
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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Building, Southeast Corner Broad and Hamilton streets, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Joseph A. Greenberg, Morris Building, Philadelphia. Reinfrced concrete, steel, 15 stories. Plans in progress.

Boiler House, Roosevelt Boulevard and Asylum pike, Philadelphia. Engineer, Albert C. Wood, Stock Exchange Building, Philadelphia. Owners, Friends' Hospital, on premises. Brick, steel, 1 story and basement, 48x54 feet, slag roof, cement floors, rolled steel sash, ornamental iron work. Engineer taking bids due July 15th.

Laundry and Boiler House, Chestnut Hill, Pa. Engineers, Day & Zimmerman, 1600 Walnut street, Philadelphia. Owners, Chestnut Hill Hospital, Miss Le Fevre, Chestnut Hill. Stone, cut stone, steel, 2 stories, 43x77 feet, variegated slate roof, cement floors, plumbing, steam heat, electric light, rolled steel sash. Engineers taking bids due July 15th.

Carpenter Shop, Delaware avenue and Howell street, Philadelphia. Architect, Eugene Stopper, 10 South Eighteenth street, Philadelphia. Owners, Helwig Silk Dyeing Co., on premises. Brick, steel, 2 stories and basement, 48x85 feet, slag roof, cement floors. Architect taking bids due July 15th.

Residences (3), Devon and Ardley street, Chestnut Hill, Philadelphia, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, W. E Greider, Jr., 2328 South Sixteenth street, and C. B. Jamison, 911 Weightman Building, Philadelphia. Brick, 2 stories, (23) 16x32 feet, (10) 16x36 feet, slag and tin roof, hardwood and tile floors, hot water heat, electric light, garages in basement. Owners taking sub-bids.

Dining Room and Residences, Girard and Corinthian avenues, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, on premises. Brick, steel, cut stone, 3 stories and basement, 222x130 feet, slag roof, cement floors ,hollow tile, elevators, roof ventilators, steam heat, electric light, metal lath, tile work, rolled steel sash and skylights, kalamen doors, waterproofing, ornamntal iron work. Contract awarded Day & Zimmerman, 1600 Walnut street, Philadelphia, who will take sub-bids July 10th, due July 20th.

Electric Work, United States Post Office, Ninth and Chestnut streets, Philadelphia. Architect, J. A. Wetmore, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Furnishing and installing furniture lights. Owners taking bids due July 28, 3 P. M., in Washington.

Church, 6511 Lincoln Drive, Philadelphia. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owners, Unitarian Congregation of Germantown, on premises. Architect taking bids due July 26th.

Apartment House, 4340-42 Frankford avenue, Philadelphia. Architect, John H. Rackie, 4341 Frankford avenue, Philadelphia. Owners, Reardon Brothers, Inc., 4344 Frankford avenue, Philadelpha. Brick, reinforced concrete, steel, 3 stories and basement ,141x48 feet, slag roof, cement, oak and pine floors, plumbing, waterproofing, architectural terra cotta, steam heat, electrc light, metal lath, tile and marble work, rolled steel skylights, bond, ornamental iron work, incinerators, area gratings, metal casement sash, brass pipe, sprinkler system. Owners taking bids due July 15th.

Grading and Paving, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 232 City Hall, Philadelphia. East driveway of Broad street from Pattison avenue to Terminal avenue. Paving Spring Garden street, from Art Museum to Crescent and North Drive of Parkway. Asphalt paving. Owners taking bids due July 15th at noon (Standard Time).

Residences (33), Haddington street, West of Fifty-seventh street, $146,000. Architect, private plans. Owner, Martin Furman, 1520 North Alder street, Philadelphia. Bric k, 2 stories, 15x29½ feet, 11x10 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (6), North side Hartel street, West of Castor road, $5,000 each. Architect, private plans. Owners, Castor Highlands Development Co., Castor avenue and Hartel street. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors, hot water heat, electri clight. Permit issued.

Residences (5), North side Shelmire street, West of Montour street, $6,000 each. Architect, private plans. Owners, Betzel Brothers, 1300 Shelmire street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Service Station, North side Midvale avenue, West of Ridge avenue, $2,800. Architect, private plans. Owners, Sun Oil Co., 1428 South Penn Square, Philadelphia. Metal, 1 story, 8x16 feet. Permit issued.

Residences (25), Montgomery avenue, Georges lane and Morst street, $86,000. Architect, private plans. Owners, Kaiserman & Korman, 1718 George's lane, Philadelphia. Brick, 2 stories, 16x30 feet, 18x30 feet, slag roof, hardwood floors, hot water heat, electric lght. Permit issued.

Garage, East side Darrah street, North of Meadow street, Philadelphia, $20,000. Architect, private plans. Owner, William Sbroglia, 6042 Elmwood avenue, Philadelphia. Brick, 1 story, 50x100 feet, 88x100 feet, slag roof, cement floors, electric work. Permit issued.

Residences (20), Abington avenue, West of Winston road ,$101,000. Architect, private plans. Owner, Robert Killough, Wayne avenue and Duval street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, hardwood and pine floors, hot water heat, electri clight. Permit issued.

Residences (4), South side Willing street, West of Pulaski avenue, $24,000. Architect, private plans. Owner, Charles B. Maguire, Oak Lane Trust Building, Oak Lane, Philadelphia. Brick, 2 stories, 20x25 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

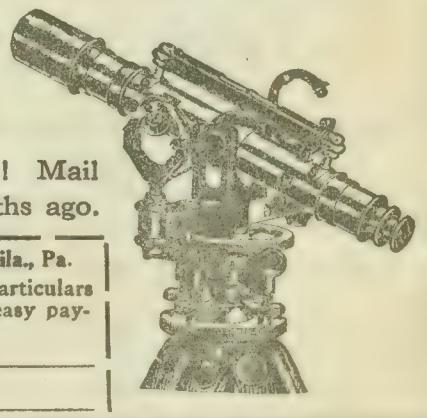
Storage Building (alts.), 158 North Third street, Philadelphia, $4,000. Architect, private plans. Owner, D. Narshawsky, 812 North Marshall street, Philadelphia. General repairs. Permit issued.

School Work, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. School, Hancock and Wildey streets, Philadelphia, low bidders, Cramp & Co. ,Denckla Building, Philadelphia, $340,000; McCloskey Co., 1620 Thompson street, Philadelphia, $341,699; plumbing, W. J. Newell & Son, 2035 Arch street, Philadelphia, $13,676; heating, Thompson Brothers, 520 Buttonwood street, $26,769; electric, E. V. Goldhahn, 17 South Forty-fourth street, Philadelphia, $6,984; ventilating, A. & W. Wegmann, 2813 West Fletcher street, Philadelphia, $1,651. Randall School, Ninth and Bainbridge streets, Philadelphia, low bidders, E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia, $4,079; Haverstick and Borthwick, Schaff Building, Philadelphia, $4,240; heating, Fred Wackenhut, 2416 Frankford avenue, $1,415; plumbng, Fred Wackenhutt, 2416 Frankford avenue, $1,903. Palace of Education, Sesqui Grounds, low bdder on electric work, Harry S. Mitchell, 1337 McFerren street, Philadelphia ,$5,400.

Art Museum and Miscellaneous Work, Fairmount Park, Philadelphia. Architect, Borie Trumbauer and Zantizinger, Land Title Bldg., Philadelphia. Owner, Commissioner, Fairmount Park, T. Martin, 127 City Hall. Portions of Electric wiring system. Portions of plumbing, drainage and ventilating, Electric work, together with pumps, motors and certain pipe work for cascades of the eastern approach of the Philadelphia Museum of

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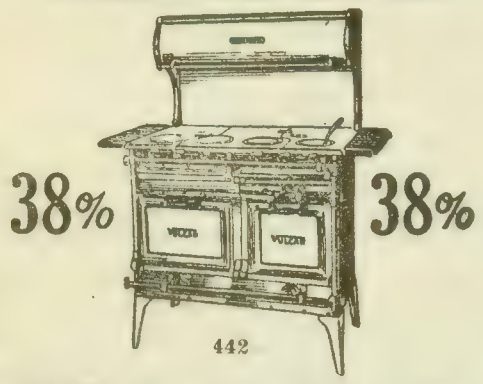
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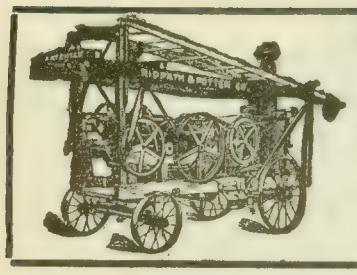
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Miscellaneous Work, Pennsylvania Railroad, Philadelphia. Owner, Pennsylvania Railroad Company, Montgomery Smith, 17th and Filbert Streets, Philadelphia. Contract No. 16, bids due July 16th. Contract No. 17, bids due July 23rd.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Swimming Pool, Twenty-seventh and Indiana avenue, Philadelpha. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Department of Public Works, Bureau of Recreation, 595 City Hall. Contract awarded McCormick-Lenham, Southeast Corner Broad and Tasker streets, Philadelphia. Electric, Maurice Newmark & Brother, 1814 Ludlow street, Philadelphia. Plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelpha.

Building (add.), Boyertown, Pa. Architects, Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, The Boyertown Casket Co., Boyertown, Pa. Brick, reinforced concrete, 5 stories and basement, 200x80 feet, wing 80x40 feet, slag roof, cement floors (plumbing, heating, electric reserved), rolled steel sash, kalamein doors, ornamental iron work. Contract awarded White Const. Co., Jefferson Building, Philadelphia.

School (add.), Oak Lane, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Oak Lane Country Day School, Oak Lane, Pa. Hollow tile, plastering, 2 stories, 35x100 feet, 3 class rooms, manual training, kitchen and cafeteria additions. Contract awarded Austin Co., Jefferson Building, Philadelphia.

Parish House, Oak road, between School lane and Midvale avnue, Germantown. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owners, Church of the Good Shepherd, Rev. W. Y. Edwards, 5816 Wayne avenue. Brick, 2 stories. Contract awarded A. Raymond Raff Cont. Co., 1635 Thompson street, Philadelpha.

Manufacturing Building, Aramingo street and Pennsylvania Railroad, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, J. Warren Watson, Twenty-fourth and Locust streets, Philadelphia. Brick, reinforced concrete, cut stone, steel, 1 story, 783x124 feet (plumbing, heating ,electric, sprinkler reserved), asphalt shingle and slate roof, cement floors, metal lath, marble work, rolled steel sash, sheet metal skylights, fire and kalamein doors, iron stairs, ornamental iron work, rolled steel shutters, area gratings, steel parttions. Contract finally awarded Wark & Co., 1600 Walnut street, Philadelphia.

Boiler Room, 8815 Germantown avenue, Philadelphia. Architects, Furness & Evans, 313 South Fifteenth street, Philadelphiai. Owners, City Mission, Home for Consumptives, Chestnut Hill, Pa. Brick, reinforced concrete, steel, 1 story add., 30x25 feet, slag roof, cement floors, rolled steel sash, shoring, waterproofing, painting and glazing, architectural terra cotta, ornamental iron work. Contract awarded George S. Roth & Son, 230 East Graver's lane, Philadelphia.

Parsonage (alts. and add.), 1908 Fitzwater street, Phladelpha. Architects, Charles W. Bolton & Son, 1506 Race street, Philadelphia. Owners. Union Baptist Church, on premises. Stone, brick, cement work, carpentry and mill work, stair work, plastering, painting and glazing, slag roof, hardware (plumbing, heating and electric reserved). Contract awarded Samuel Brown, 919 South Seventeenth street, Philadelphia.

Bank and Offices (alts.), Southwest Corner Broad and South Penn Square, $20,000. Owners, West End Trust Co., on premises. General repairs. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

Residences (12), North side Devereaux street, East of Cottage street, $71,000. Architect, private plans. Owners, Starkey & Waters, on premises. Brck, 2 stories, 14x37 feet, 11x9 feet, slag roof, hardwood and pine floors, electric light. Contract awarded to F. W. Starkey ,1669 Bridge street, Philadelphia.

Laundry (add.), 5411 North Water street, Philadelphia, $5,000. Architect, private plans. Owners, Suburban Laundry Co., 5411 North Water street, Philadelphia. Brick add. Contract awarded to Willam L. Bushnell, 2145 East Firth street, Philadelphia.

Exhibition Building, Sesqui Grounds, Philadelphia. Owners, Negro Activity Association, Twelfth and Spruce streets, Philadelphia.

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Frame, 1 story, 24x35 feet. Contract awarded to J. F. Trent, Nineteenth and Addison streets, Philadelphia.

Ice Storage and Office, West side Sixty-first street, North of Woodland avenue. Architect, private plans. Owner, E. J. Gallagher, 601 South Ithan street, Philadelphia. Brick, 1 story, 28x18 feet 11 inches. Contract awarded to John J. McCarthy, 6008 Osage avenue, Philadelphia.

Building (alts.), 1131 Chestnut street, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard Estate, Stephen Girard Building, Philadelphia. Concrete, steel beams, painting and glazing, plastering. Contract awarded F. W. Van Loon, Perry Building, Philadelphia.

Residences (36), Westmoreland, Fox and Bailey streets, Philadelphia, $4,500 each. Architect, private plans. Owner, Charles W. Irvin, 206 South Seventh street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, pine floors, hot wate rheat, electric light. Contract awarded to Edward G. Carroll, Jr., 5846 Brush road, Philadelphia.

Residence (add.), 450 South Sixtieth street, Philadelphia, $3,000. Architect, private plans. Owner, Mr. Bronstein, on premises. Brick, 2 stories add., 13x8 feet, slag roof, pine floors. Contract awarded to M. Kusmsky, 2627 South Sixth sereet, Philadelphia.

Residences and Stores (2) (alts.), 5012 and 5026 Wayne avenue, $2,000 each. Architect, private plans. Owner, Herman Schwalbe, 325 Walnut street, Philadelphia. General alterations. Contract awarded to Charles S. Johnson & Son, 5600 Germantown avenue, Philadelphia.

Residence, South side Harmon road, West of Ridge avenue, $6,500. Architect, private plans. Owner, Elwood Dungan, 5925 Ridge avenue, Philadelphia. Frame and brick, 2 stories, 40x22 feet, hot water heat, electric light. Contract awarded to C. M. Swartley, 6835 Ridge avenue, Philadelphia.

Residence (alts.), 4010 Kensington avenue, Philadelphia, $2,000. Architect, private plans. Owner, George C. Lash, on premises. General alterations. Contract awarded to H. A. Hopple, Heed Building, Philadelphia.

Coal Trestle, Eleventh and Callowhill streets, Philadelphia, $30,000. Owners, Reading Company, Reading Terminal, Philadelphia. Contract awarded to H. E. Baton, 1713 Sansom street, Philadelphia.

Office, 3940 Chestnut street, Philadelphia, $12,000. Architect, private plans. Owners, Home Co., on premises. Steel, 1 story, 32x80 feet. Contract awarded to Carr & Courtney, 3025 Poplar street, Philadelphia.

Residence, East side Eighth street, North of Chelten avenue, Philadelphia, $12,000. Architect, private plans. Owner, W. C. Taylor, 1307 Sixty-fifth avenue, Philadelphia. Brck, 2 stories, 40x60 feet, hardwood and pine floors, electric light, tile work. Contract awarded to Frank Reichell, 4662 Oakland street, Philadelphia.

Store and Residence (alts.), 116 South Nineteenth street, Philadelphia, $3,800. Architect, private plans. Owner, Dr. B. A. Thomas, 1900 Spruce street, Philadelphia. General alterations. Contract awarded to E. M. Canny, Sixty-first and Sansom streets, Philadelphia.

Residence and Store (add.), 425 West Olney avenue, Philadelphia, $2,400. Architect, private plans. Owner, Charles Reickert, 425 West Olney avenue, Philadelphia. Brick, 1 story add., 16x12 feet, general alterations. Contract awarded to Louis Braenig, Jr., 5800 North Fourth street, Philadelphia.

Store and Residence (add.), 1215 South Sixth street, Philadelphia, $2,200. Architect, private plans. Owner, Constantine Garretine, 1713 South Tenth street, Philadelphia. Brick, 2 stories add., 12x14 feet, slag roof, pine floors. Contract awarded to Antonio Falmione, 1127 Federal street, Philadelphia.

Garage, 3919-21 Ludlow street, Philadelphia, $3,500. Architect, private plans. Owner, M. J. Callahan, 3924 Market street, Philadelphia. Brick, 2 stories, 40x69 feet, slag roof, cement floors, electric work. Contract awarded to James J. Murphy & Son, 324 Sloan street, Philadelphia.

Residence and Store, (Fire repairs) southeast corner Limekiln Pike and 65th Street, Philadelphia, $5,000. Owner, C. G. Cairs, on premises. General fire repairs. Contract awarded J. J. Moran & Co., 2106 Haine St., Philadelphia.

School (alts. into Convent), Lehigh and Memphis streets, Philadelphia. Architect, Peter F. Getz, Victory Bldg., Philadelphia. Owner, St. Ann R. C. Church, Rev. J. Hand, on premises. Interior alterations, cabinet tile metal partitions, laundry and kitchen equipment. Contract awarded France and Missar, 6725 Yocum street, Philadelphia.

Dining Room (alts. and add.), Front and Lehigh Avenue, Philadelphia. Architect, Stewardson and Page, 315 South Fifteenth street, Philadelphia. Owner, Protestant Episcopal Hospital, Front and Lehigh Avenue, Philadelphia. Stone, cut stone, 1 story, 36x45 feet, (2 wings) tile roof, cement floors, safety treads, Tock Bros., waterproofing, metal lath, hollow metal sash, rolled steel skylights, ornamental iron work, bond, brick, paving, cut stone, reinforced concrete, cement floors, plumbing, plastering, iron work, hardware, metal sash, corner Beads. Contract awarded F. M. Harris Co., 1520 Parrish St., Philadelphia.

Apartment House, Northeast corner 43rd and Walnut streets, Philadelphia. Architect, Charles Oelschlager, 1615 Walnut street, Philadelphia. Owner, Michael Maloney, 1418

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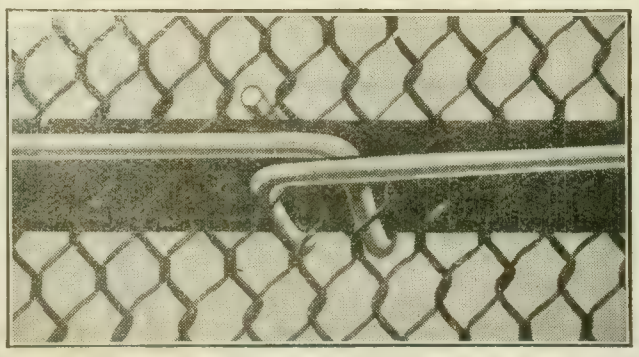
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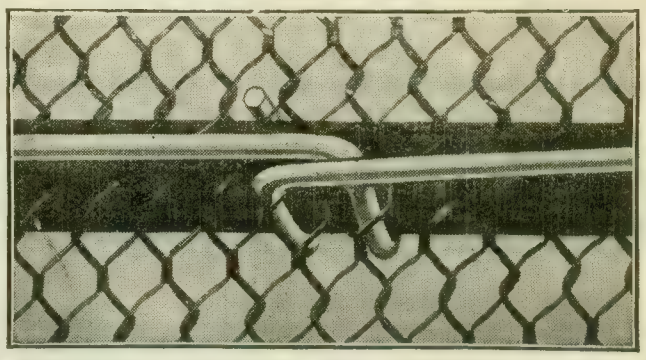
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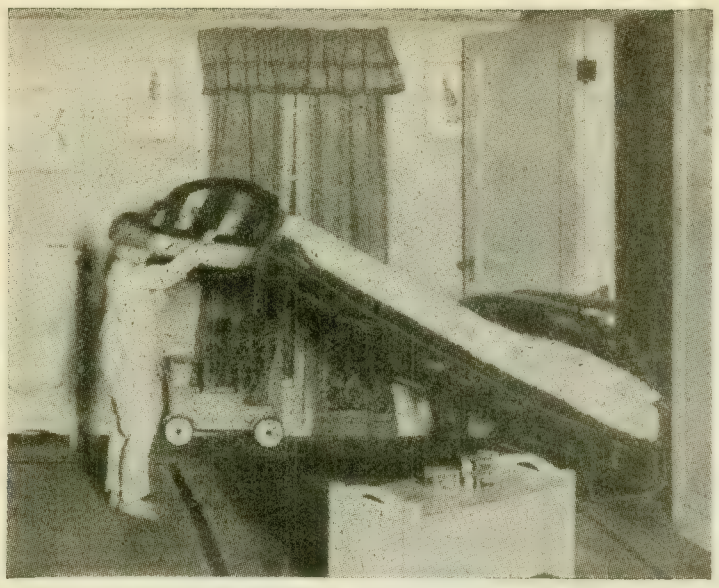
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South Penn Square, Philadelphia. Brick, steel, limestone, 4 stories and basement, 28x100 feet, slag roof, cement and oak floors, steam heat, electric light, metal lath, tile and marble work, bond, ornamental iron work. Contract awarded J. P. Kearney, Bankers' Trust Building, Philadelphia.

Pennsylvania Construction News

Bank (add.), Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Bethlehem Trust Co., Bethlehem, Pa. Granite, concrete, steel, terra cotta, concrete roof, marble floors, heating extnsion, electric light (marble reserved), bronze, iron work. Plans in progress.

City Hall (add.), Easton, Pa. Architect, E. H. Wenzelberger, 224 Northampton street, Easton, Pa. Owners, City of Easton, care of C. Reese, City Hall, Easton, Pa. Architect selected. Too early for details.

School (add.), Rockledge, Montgomery County, Pa., $10,000. Architect, C. H. Fries, Frankford and Oxford street, Philadelphiia. Owners, School Board of Rockledge, D. M. Thomson, Rockledge, Pa. Stone, 2 stories, 25x40 feet, slag roof, maple floors, heatng extension, electric light, mill work, blackboards. Plans in progress.

Residence, Fullerton, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Guido Sarpori, Fullerton, Pa. Brick, 2½ stories, 20x55 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Miss Banda Kilty, care of architect. Brick, 2½ stories, 22x40 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Apartment Building (alts.), Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owner, Mrs. L. B. Deysher, Main and Elizabeth streets, Bethlehem. Brick, 2 stories, 9x21 feet, tin roof, general interior and exterior alterations. Architect ready for bids in a few days.

Garage, Overbrook, Pa. Architects, De Armond, Ashmead & Bickley, 20 South Fifteenth street, Philadelphia. Owner, W. T. Galey, Jr., Overbrook, Pa. Frame and stucco, 1 story, 18x18 feet, shingle roof, cement floors, electric light. Architects taking sub-bids.

Residence, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Dr. F. Beck, 402 Hanover avenue, Allentown, Pa. Shingle, 2 stories, 36x20 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Architect will take bids.

Residence, Spring street, Everett, Pa. Architect, J. W. Thompson, 703 South Sixtieth street, Philadelphia. Owner, Edward B. Robinette, Everett, Pa. Brick, stone, 2½ stories, 40x25 feet, 20x20 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Perry & Earl Robinette, Everett, Pa., will build and are taking sub-bids.

Grade School, Berwick, Pa. Associate architects, W. H. Witman, Harrisburg, and Mr. Heavner, Berwick, Pa. Owners, Board of Education, Berwick, Pa. Brick, cut stone, steel, 2 stories and basement, 145x50 feet, Johns Manvill roof, composition and maple floors, plumbing, roof ventilators, metal window guards, steam heat, electric light, metal lath, bond, iron stairs, ornamental iron work. Owners taking bids due July 19th.

Buildings (alts.) and New Building, Spring Mills, Montgomery County, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Walker Brothers, Spring Mills, Montgomery County, Pa. Brick, steel, 1 story, 79x115 feet, general alterations, Monitor skylights. Architects taking bids due July 20th before 11 A. M.

Recreation Building, Eddington, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, Eddington Presbyterian Church, Eddington, Pa. Stone, 1 story, 30x60 feet, slate roof, pine and cement floors, steam heat, electric light, ornamental iron work. Architects taking bids due July 16th.

Residence and Garage, Merion, Pa. Architect, Alexander M. Adams, 1012 Walnut street, Philadelphia. Owner, Norman F. Hunnewell, Merion, Pa. Stone, 2½ stories and basement, 25x60 feet (plumbing, heating, electric reserved), slate roof, oak and pine floors, metal lath, tile work, ornamental iron work. Architect taking bids due July 15th.

Store Building, 809-13 Hamilton street, Allentown, Pa. Architect, Harold Holmes, Detroit, Mich. Owners, S. S. Kresge, Detroit, Mich. Brick, steel, granite, cut stone, 2 stories and basement, 110x63 feet, slag roof, cement and maple floors, metal weather strip, waterproofing, ornamental iron work, bond, rolled steel sash and skylights, steam heat, electric light, metal lath, tile, marble and terrazzo work, Stedman floors, metal store fronts. Architect taking bids due July 15th.

Cottage, Muncy, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, State Industrial Home for Women, care of Frank Smith, 658 City Hall. Owners taking bids due July 22nd. Deposit, $20; refund, $10.

Factory, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Jet Pharmacal Co., care of architects. Mill construction, 2 stories, 70x80 feet, built-up roof, maple floors, steam heat, electrc light, steel sash, fire doors, roof ventilators. Architects taking bids due July 15th.

Residences (3), with Garages, Elkins Park, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, William Greenhouse, Elkins Park, Pa. Stucco, 2½ stories. Architects taking bids due as soon as possible.

Nigh School, Northampton, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Northampton School District, Northampton, Pa. Owners taking revised bids on heating and ventilatiag due July 19th at 7 P. M.

Building (alts.) and New Building, Spring Mills, Montgomery County, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Walker Brothers, Spring Mills, Montgomery County, Pa. Architects taking bids on plumbing July 20th.

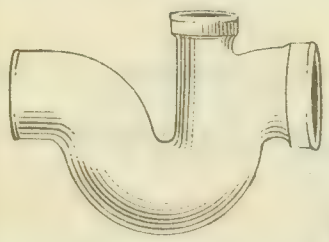
Church (alts. and add.), Downingtown, Pa. Architect, John H. Mowere, Phoenixville, Pa. Owners, Downingtown Methodist Episcopal Church, Rev. A. B. Goudie, Downingtown, Pa. Stone, limestone, steel, 2 stories and basement, 98x46 feet (plumbing, heating, electric reserved), slag roof, pine and maple floors, rolled steel sash, ornamental iron work. J. D. Pollock, secretary, Downngtown, Pa., taking bids due July 26th.

School, Dallastown, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York,

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Pa. Owners, St. Joseph's Roman Catholic Church, Rev. Magee, Dallastown, Pa. Brick, steel, 2 stories, 86x96 feet, slag roof, maple floors (heating, plumbing and electric reserved). Owners taking bids due July 16th.

Cottage No. 8, Laurelton, Pa. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Laurelton State Village, Laurelton, Pa. Low bidders: F. K. Worley Const. Co., Wesley Building, Philadelphia, $59,689; D. R. Pursley, Laurelton, Pa.. $60,-743; plumbing, H. O. Daubert, Laurelton, Pa., and Williamsport, $8,186; heating, Keller Co., Laurelton, Pa., $3,093. Electric, no bids received. Steam dist., Mellon Co., 4415 Ludlow street, Philadelphia, $64,514. Sewer and water lines, Laurelton, contract awarded B. O. Daubert, Williamsport, Pa., and Laurelton, Pa., $20,868. Heating plant and trestle, owners taking bids due July 20th, 11 A. M. (Standard Time).

School Building, Boothwyn, Pa. Architects, H. Rex Stackhouse and W. W. Donohue, 266 South Fifteenth street, Philadelphia. Owners, Upper Chichester Township Board of Education, F. B. Albany, Boothwyn, Pa. Low bidders: Hood & Gross, 1535 Chestnut street, Philadelphia, $60,995; Holden Const. Co., Chester, Pa., $63,200; heating and ventilating, William P. Sowden, Chester, Pa., $8,500. Plumbing, B. L. Marker, Chester, Pa., $6,793. Electric, Merit Elec. Co., 630 Race street, Philadelphia, $1,563.

Road Work, Pennsylvania. Owners, Department of Highways of Pennsylvania, Harrisburg, Pa. Reinforced concrete and bituminous penetration surface course. Counties: Allegheny, Carbon, Chester, Jefferson, Lebanon, Mercer, Northampton. Owners taking bids due July 16th.

Stores and Apartments (14), Swarthmore, Pa. Architect, Stuckert and Company, Crozer Building, Philadelphia. Owner, Stabler and Harvey, Inc., 2117 Packard Building, Philadelphia. Brick, cinder concrete block, 3 stories, 118x180 feet, slag and slate roof, hardwood, tile, terrazzo floors, steam heat, electric light, time work, metal lath. Owner taking sub-bids due July 19th.

Residences and Garages (2) Northeast corner and Southeast corner Myrtlewood and Manor Avenues, Llanerch Hills, Delaware County, Pa. Architect, Charles C. Schweiker, 1209 Garfield Ave., Manoa Hts., Pa. Owner, G. B. M. & Co., 6327 Summer St., Philadelphia. Stone, frame, 2½ stories, 24x29 feet, shingle roof, oak floors, hot water heat, electric light. Owner taking sub-bids.

Road Work, Pennsylvania. Owners, Pennsylvania Dept. of Highways, Harrisburg, Pa. Low bidders on Road Work received July 7th.

Adams Co., A-4120, Mt. Joy Township, 14,-256 feet. One course reinforced concrete. John S. Tetier, Taneytown, Md., $94,606.84.

Allegheny Co., A-3757, Hampton and Indiana Townships, 10,500 feet. One course reinforced concrete. D. W. Challis and Sons, Inc., Sewickley, Pa., $119,248.30.

Warren Co., R-88, Columbus Township, 5,354 feet. One course reinforced concrete. Milliron Const. Co., Inc., Dubois, Pa., $60,-244.61.

Lawrence Co., R-350, A-3686, A-3354, Wayne and Perry Townships, 12,945 feet. One course reinforced concrete. Young and Keesecker, Youngstown, Ohio, $91,812.60.

Lebanon Co., A-4047, S. Lebanon Township, 5280B. W. B. Macadam, County of Lebanon, Lebanon, Pa. Low bidder, $13, 940.02.

Franklin Co., R-522, A-4155, Greene and Guilford Townships, 5,232 feet. One course reinforced concrete. I. F. Hepler, Tyrone, Pa., $34,975.84.

Beaver Co., A-3640, Chippewa Township, 9,800 feet. One course reinforced concrete. J. C. Devine Co., Alliance, Ohio, $75,821.80.

Greene Co., N-256, S-2, A-3954, Center Township, 15,015 feet. One course reinforced concrete. E. E. Morris, Waynesboro, Pa. $148,884.06.

Schuylkill Co., R-398, Frackville Boro., Butler Twp., 28,489 feet. One course reinforced concrete. Rudolph and Delano, Tamaqua, Pa. $252,900.20.

Washington Co., R-113, S-6, W. Pike Run Township, Centerville Boro., 9,520 feet. One course reinforced concrete. E. E. Morris, Waynesburg. Pa., $94,368.85

Blair Co., A-3574. Logan Township, 8,223 feet. One course reinforced concrete. Avery and Bailey, Philipsburg, Pa., $74,117.93.

Pennsylvania Contracts Awarded

Residence and Garage, Haverford, Pa. Architect, Paul Cret, Otis Building, Philadelphia. Owner, C. H. Geist, Packard Building, Philadelphia. Stone, 2½ stories and basement, irregular in size, variegated slate roof, oak and pine and cement floors, hot water heat, electric light, tile work, metal lath, bond, ornamental iron work, flagstone. Contrarct awarded H. E. Baton, 1713 Sansom street, Philadelphia.

Residence and Buildings (alts. and add.), Villa Nova, Pa. Architect, Paul Cret, Otis Building, Philadelphia. Owner, C. H. Geist, Packard Building, Philadelphia. Consists new kitchens, bay windows, stairways and various alterations. Too early for details. Contract awarded H. E. Baton, 1713 Sansom street, Philadelphia.

Residence (alts. and add.), Elkins Park, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, P. L. Lanning, Elkins Park, Pa. Contract awarded C. T. Clark, Germantown and Sedgley avenue, Philadelphia.

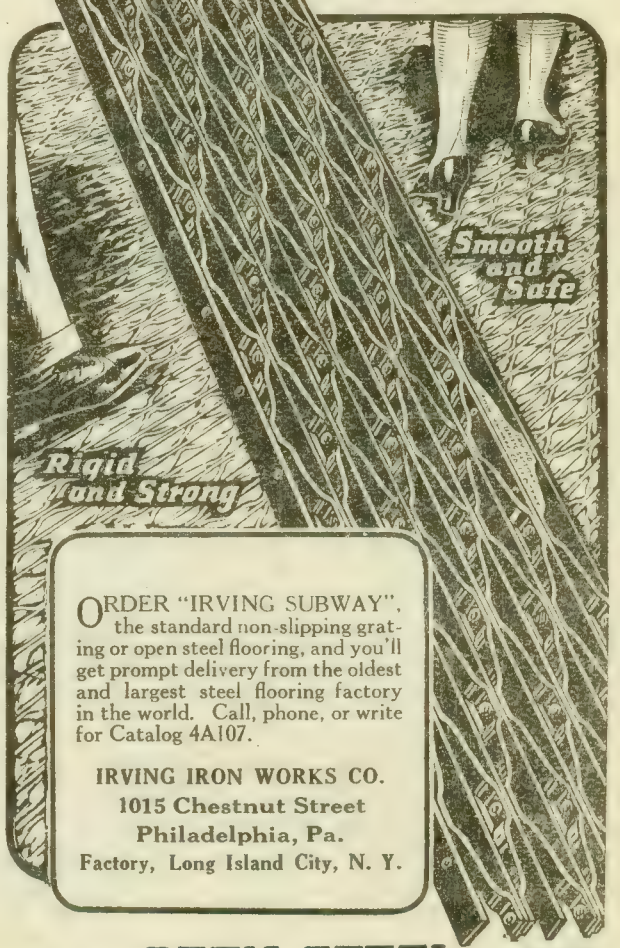
Church (alts and add.), Fottsville, Pa. Architects, Cram & Ferguson, Boston, Mass. Engineers, Day & Zimmerman, 1600 Walnut street, Philadelphia. Owners, First Presbyterian Church, of Pottsville, Pa. Stone, brick, steel, cut stone, 3 stories and basement, 65x40 feet, slate and composition roof, cement, linoleum and maple floors, painting and glazing, plumbing, Tock Brothers' waterproofing, dampproofing, ornamental iron work, iron stairs, bluestone, area gratings, metal lath, marble and terrazzo, steam heat, electric light. Contract awarded to F. W. Van Loon, Perry Building, Philadelphia.

Residence (alts. and add.), Wayne, Pa. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, Charles W. Bayliss, Wayne, Pa. Stone, 3 stories, 16x32 feet (electric light, shingle roof, hardwood floors, tile, plumbing, heating reserved). Contract awarded J. D. Lengel, Wayne, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

York County, A-3827, Spring Garden Townshship. One course reinforced concrete. Con-

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tract awarded to York Eng. & Const. Co., York, Pa., $41,785.60.

Warren County, R-88, S-7-8, Broken Straw and Conewago Townships. One course reinforced concrete. $21,493.14. Contract awarded to Tower Brothers, Warren, Pa.

Armstrong County, R-203, A-3295, Manor, Bethel and Gilpin Townships. One course reinforced concrete. $287,169.98. Contract awarded to Charles Winters Const. Co., Butler, Pa.

Crawford County, R-448, A-4077, Steuben and New Richmond Townships, Townville Borough. One course reinforced concrete. $127,871.19. Contract awarded to J. D. Devine Co., Alliance, Ohio.

Schuylkill County, R-339, Sec. 2, A-3980, Hubley Township. One course reinforced concrete. $114,362.50. Contract awarded to Swanger & White, Lebanon, Pa.

Perry County, R-122, A-4039, Tyrone and Madison Townships, W. B. surface course. $117,550.52. Contract awarded to J. M. Hutchinson, Altoona, Pa.

New Jersey Construction News

Cottage, Ventnor, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. **Owner, name withheld.** Brick, 2 stories, 35x35 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Fire House, Ventnor, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Ventnor, Ventnor, N .J. Brick, steel, 2 stories, 60x120 feet, slag roof, composition floors, rolled steel sash. Plans in progress.

Residence (add.), 12 North Georgia avenue, Atlantic City, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City. Owner, Ralph Imperials, care of architect. Brick, cut stone, 3 stories, 20x26 feet, slag roof, hardwood floors, electric light, tile work. Plans in progress.

Church and Sunday School, Atlantic City, N. J., $150,000. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City. Owners, First Baptist Church, Rev. H. Vernon Howlett, 17 South Madison avenue, Atlantic City, N. J. Brick, stone, 1 and 3 stories. Plans in progress.

Bank and Office, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Bankers' Trust Co., E. Richards, president, Atlantic City. Brick, 2 stories, 25x120 feet, slag and concrete roof, composition, tile and maple floors (heating, plumbing and electric separate bids). Revised plans in progress.

Residence and Garage, Ventnor, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owner, George Burke, care of architect. Hollow tile, brick and stucco, 2 stories and basement, 42x56 feet, hardwood floors, electric light, tile work. Architect taking bids.

School (alts. and add.), Moorestown, N. J. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of Education, Township of Moorestown, N. J. Brick, cut stone, reinforced concrete, 2 stories and basemnt, 71x42 feet, slag roof, maple and cement floors, hollow tile, steam heat, electric light, metal lath, rolled steel sash, bond, ornamental iron work. Owners taking bids due July 19th.

Stores (3) and 12-Family Apartment Building, Ventnor, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, Benjamin King, care of architect. Brick, 3 stories, 120x60 feet, slag and tile roof, hardwood floors, hot water heat, electric light, tile work. Architect wil ltake sub-bids in one week.

School, Farmington, N. J. Architect, J. Vaughan Mathis, Guarantee Trust Building, Atlantic City. Owners, Farmington School Board, care of architect. Brick, hollow tile and steel, 1 story and basement, 80x56 feet (heating, plumbing and electric separate). All bids rejected. Will take revised bids.

Bank, Margate City, N. J. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owners, Margate Trust Co., care of architect. Brick, steel, stone, 2 stories, 45x80 feet, slag and tile roof, tile, marble and concrete floors, electric light, metal lath, tile work, ornamental iron or bronze. Architect ready for bids.

School, Deep Water, Salem County, N. J. Architect, C. R. Peddle, 136 South Fourth street, **Philadelphia. Owners,** Board of Education, Lower Penn's Neck Township, N. J. Revised plans in progress. Will be ready for bids in one week.

School, Oaklyne, N. J. Architect, Frank R. Watson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, W. C. Linck, Oaklyne, N. J. Brick, 2 stories, 56x200 feet, slag roof, maple floors, steam heat. Owners taking bids due July 19th, 8 P. M.

Residence (add. and alts.), Haddonfield, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, J. A. Reggin, Haddonfield, N. J. General interior and exterior alterations. Architects taking bids due July 19th.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Route No. 1 extension, 8,200 feet, City of Newark. South of the embankment of Pennsylvania Railroad ,Waverly and Passaic Branch between Lincoln Highway and point west of Wilson avenue. Paving is not included on this work. Work to be done in accordance with provisions of Chapter 14, Laws of 1917, Chapter 253, Laws of 1922. Construction of embankment of highway, bridges over streets and railroads, abutment walls, retaining walls of concrete, viaduct structure for the Highway of concrete and steel encasd in concrete. Fill for embankment, concrete, structural steel. Certified check seventy-five thousand dollars ($75,000) must accompany each bid. Deposit of $50 (refunded). Owners taking bids due July 26th at 11 A. M. (Standard Time).

Road Work, New Jersey. Owners, State Highway Commission, Broad Street Bank Building, Trenton, N. J. Reconstruction of (5) bridges on Route 7, Sections 6 and 7. Lowest bidders: Jemison, Mealy & Felice, Trenton, N. J., $36,928.90.

Route No. 7, widening Rahway-Metuchen, Middlesex County. Lowest bidders: Little & Pfeiffer, Perth Amboy, N. J., $179,028.05.

Route No. 14, Sec. 14, May's Landing-Egg Harbor, Atlantic County. Lowest bidders: Interstate Eng. & Const. Co., 918 Catharine street, Philadelphia, $289,325.98.

New Jersey Contracts Awarded

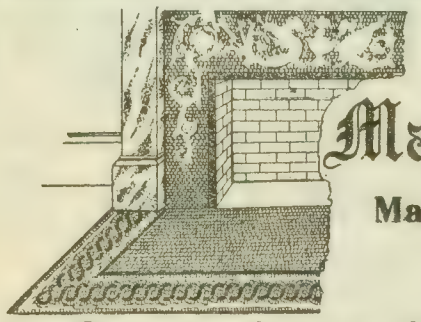
Bank (alts.), Haddonfield, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Haddonfield Safe Deposit & Trust Co., Haddonfield, N. J. Carpentry and mill work, counters, plastering, brass grills, terrazzo floors, electric work, heating alterations. Contract awarded S. B. Taylor, Inc., 43 Lafayette street, Haddonfield, N. J.

Hospital for Insane (add.), New Lisbon, N. J. Architect, Herbert O. Ziegler, 1012 Walnut street, Philadelphia. Owners, Board of Freeholders, Burlington County, N. J. Contract awarded R. S. Herzog, 10 South Eighteenth street, Philadelphia.

Green House and Warehouse, East Front street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, M. C. Ribsam & Sons, Broad and Front streets, Trenton, N. J. Brick, steel, frame, 3 stories, 100x75 feet, Barrett roof, pine floors, elevators, roof ventilators, dampproofing, iron stairs, fire and kalamein doors, electric work (glass reserved). Contract awarded to Karno-Smith Const. Co., Broad Street Bank Building, **Trenton, N. J.**

Office Building, Trenton, N. J., $52,138. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, New Jersey Manufacturers' Association, care of architect. Reinforced concrete, brick, steel, 3 stories and basement, 50x75 **feet, built-up roof,** linoleum floors (heating, **plumbing and** electric separate). Contract awarded to S. W. Mather & Son, 300 Maple avenue, Trenton, N. J.

Store (add.), South Broad street, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owners, Goldberg's, Inc., Broad and Front streets, Trenton, N. J. Brick, limestone, granite, steel, 5 stories,



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24x134 feet, slag roof, maple floors, heating extension, electric light, metal lath. Contract awarded to William C. Ehret, Trenton Trust Building, Trenton, N. J.

Store, Hanover and Broad streets, Trenton, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, Donnelly Realty Co., care of architect. Brick, steel, ston trim, 4 stories, 40x80 feet, slag roof, pine floors (heating, plumbing and electric reserved), tile and marble, metal lath. Contract awarded to Karno-Smith Const. Co., Trenton, N. J.

Residences (2), 539-41 North Thirty-fifth street, Camden, N. J., $7,500 total. Architect, private plans. Owner, Philip J. Gomez, 3400 Westfield avenue, Camden, N. J. Frame, 2 stories, 14x46 feet, slag roof, pine floors, hot air heat. Contract awarded to Davies Brothers, 901 North Thirty-first street, Camden, N. J.

Residence, 247 South Thirty-third street, Camden, N. J., $5,000. Architect, private plans. Owner, Margaret B. Ketler, Camden, N. J. Brick, 1½ stories, 24x36 feet, slate surface roof, hot water heat. Contract awarded to Davies Brothers, 901 North Thirty-first street, Camden, N. J.

Road Work, Mercer County, N. J. Owners, Mercer County Board of Freeholders, Court House, Trenton, N. J. Reconstruction of Trenton-Pennington road, Ewing and Hopewell Townships. $499,000. Contract awarded to Michael Staub, Trenton, N. J.

Miscellaneous Construction News

Hospital, Troy, N. J. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, J. A. Eddy Memorial Association, Troy, N. Y. Brick, limestone, steel, 2 stories and basement, 106x42 feet, slag roof, cement floors, steam heat, electric light, tile work, metal lath, ornamental iron work. Architects taking bids due July 19th, 4 P. M.

Miscellaneous Contracts Awarded

Women's Educational Building, Morgantown, W. Va. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, University of West Virginia, Morgantown, W. V. Brick, cut stone, steel, 4 stories and basment, 114x51 feet, 51x34 feet, 90x58 feet, slag and slate and cement roof, cement, maple and terrazzo floors, hollow tile, concrete work, swimming pool, gym, waterproofing, metal lath, tile work, metal sash, iron stairs, ornamental iron work. Contract awarded Charles B. Keyser & Co., Bellaire, Ohio. Heating and plumbing, Alexander Zech & Son, Morgantown, W. Va. Electric, Rosenblatt & Hunt, Charleston, W. Va.

Albert Zellfelder, 1324 Walnut Street, Philadelphia, has opened a new department for the installation of Acoustic treatment of auditoriums, churches, assembly rooms, etc.; also for sound deadening in offices, machine shops, telephone rooms and other places where quiet is necessary.

An old legend tells of a magician's vase, the magician could get out of it only that which he put in. Advertising is just that If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

(Continued from page 440)

Recently, one phase of the problem of acoustics was investigated by the Bureau of Standards. Laboratory tests were made on many plasters to determine the extent to which sound would penetrate. Eight of the panels tested contained lime only and the tests show that in every case the transmission of sound was lowest with straight lime plaster.

In only three cases was direct comparison made between Gypsum and lime and the results show that actual sound penetrates hard plasters with 6 to 24 times the volume that it penetrates lime plaster.

These figures are only a measure of the transmission of sound from one room to another . They do not touch on absorption and reflection which govern the acoustics within a room. The value of lime plaster in insuring a quiet room or building is well established by experience, but its importance have been over-shadowed in the intensive advertising campaigns of other plasters.

The application of lime plaster has been made to appear very difficult and expensive. This is due largely to the fact that the true facts regarding its use have been submerged. In reality lime plaster possesses advantages over all other plasters that justify many of the largest builders in the country in using it exclusively.

The detailed work of plastering with lime need not be discussed except to bring out the fact that the best of keys—on which the strength of all plaster depends —are obtained. Another fact with lime plaster which is not realized is that the brown may be immediately laid on the wall over the scratch coat.

Plastering a ceiling—where metal lath is now the standard—is a simple operation with lime. The scratch coat is put on rapidly and easily, and it is followed immediately with the brown coat. If properly haired absolutely no difficulty is experienced with plaster falling off.

Attention should be called to the choice of metal lath. It is always desirable to choose a lath that presents the greatest bearing surface for the plaster. The best wall lath is not always suitable for ceiling work. A certain lath may carry wall plaster perfectly, but when this same lath is put on a ceiling—the bearing surface may be so reduced that the plaster will not stay in place. A little thought and study of this detail will go far to improve plastering in general.

Passing up the usual involved arguments and falling back on practical experience, the simple facts remain that lime plaster does not destroy but rather preserves the metal that always holds it in place; it retards the spread of a fire, and insulates against sound better than any other plaster. The largest builders in the

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country use it for its economy, durability and ease of application. Lime plaster is suitable and also necessary for the finest work.

Mortar

The general public knows lime as something used to stick bricks together, and they are probably correct in that no brick or stone motars are successfully used, unless they contain lime. In the struggle for business much pressure is brought to bear to show the necessity of adding something to lime mortar. On the other hand, certain patent mortars that advertise "No lime needed" are known to add the lime in their plant, which makes the advertisement true. It may be necessary to adulterate lime mortar to keep certain competitive industries solvent, but it is not necessary for the sake of the mortar itself.

Independence Hall—over 150 years old—tells the story of durability just as well as going back to Babylon. The question of strength required is answered by considering that any modern house or apartment seldom has walls over five stories high. Modern office buildings, with their great height, do not depend on their masonry for strength, but rather carry their walls story by story on steel or concrete frames.

Even at the age of one day, tests at the Rock Island Arsenal prove that lime mortar does not show appreciable settlement at loads far above anything met in practice.

The principal material added to lime mortar is Portland cement, which adds unnecessary strength at the same time that it cuts down the workability. A little study of this question will reveal an increase of cost as cement is added that is out of all proportion to even the laboratory results obtained. In practice this unnecessary strength is seldom obtained because of poorer workmanship and also to the fact that the cement has probably hardened before it gets into the wall. Lime-cement mortars are satisfactory in spite of rather than on account of the added material. Even cement advocates admit that lime is required in all mortar as their specifications for straight cement mortar include a certain percentage of lime to make it workable; or in other words, the lime is added to make it mortar.

As an example, The West Baden Springs Hotel boasts of the largest dome in the world, with a span of 200 feet, or 12 feet larger than St. Peter's Cathedral in Rome. This dome supported on 16 brick piers is laid up in straight lime mortar without added cement.

Such examples of the use of lime mortar are scattered throughout this entire country. One and all these structures demonstrate beyond a doubt that lime mortar is all that a mortar should be. A general knowledge of the truth, the whole truth and nothing but the truth about straight lime mortar, would result in the saving of millions of dollars in the construction industry.

Concrete

The fact that lime is added to concrete by the biggest men in the construction industry is bound to raise the question as to why they do it.

Colonel Cooper specified its use in the Wilson Dam at Muscle Shoals, and it is specified in all Government work under the direction of the Chief of Engineers, U. S. Army. There is good and sufficient reason why such men insist that concrete on which they stake their reputations shall be as good in the forms as it came out of the mixer. Lime acts as a lubricant, facilitating placing and at the same time preventing the stone and grout from becoming unmixed on the trip from the mixer to the form. It insures an easier placed and more uniform concrete, which accounts for the water-tightness and the greater strength of lime concrete.

Caution says that "lime does not weaken concrete," but that is only a small part of the story. Structural or building concrete is generally difficult to work into the forms on account of small sections and heavy or complex reinforcing. Workability, or the ability of concrete to be worked into place, is obtained by adding either water or lime. Excess water reduces the strength while lime does not. It follows logically that if the required workability is obtained by lime and the amount of excess water is reduced, the concrete will be stronger. Field specimens prove that the use of lime does result in stronger structural concrete and friends of lime need not apologize for that fact.

The greater uniformity of concrete placed by the lime method is the direct and logical result of being able to move the concrete into place in the same condition that it left the mixer. Here again the specimens taken from jobs justify the use of lime because the designer is sure that there is no weak concrete at the critical points.

The improved appearance of lime concrete is also the result of its uniformity and workability.

We would naturally expect that the Chicago Plan Commission would use the most economical and dependable method of water-tightening the pits of their bridges over the Chicago River. Their letter on the subject says: "Ten pounds of hydrated lime per bag of cement was specified and used. The counterweight pits of all these bridges have proven to be absolutely watertight." At the Wells Bridge it is 34 feet from the water line to the bottom of the pits and they tell us these pits are absolutely dry. There is no mysterious property in lime that water tight-

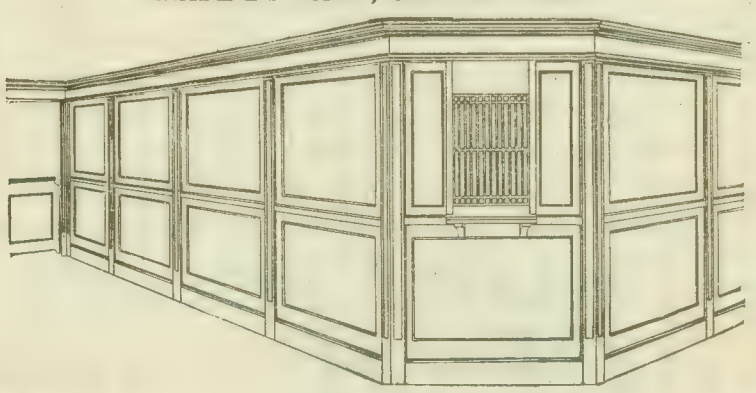
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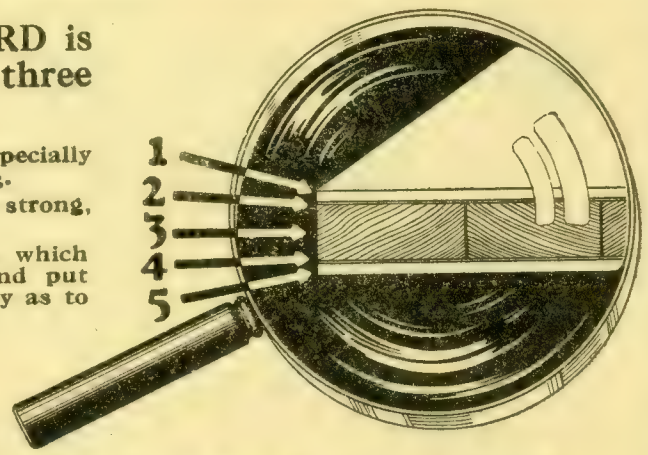
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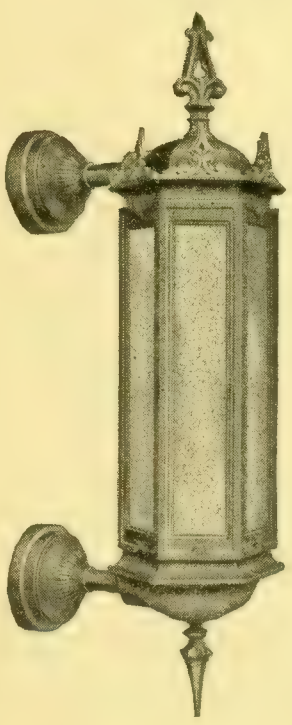
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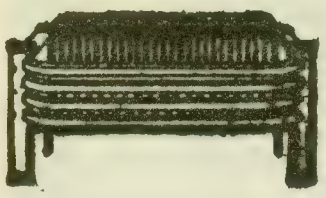
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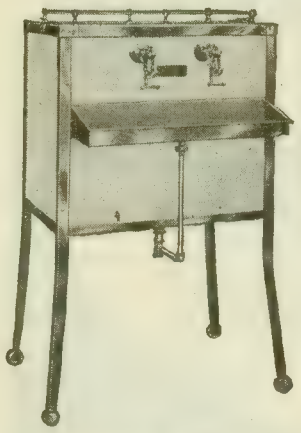
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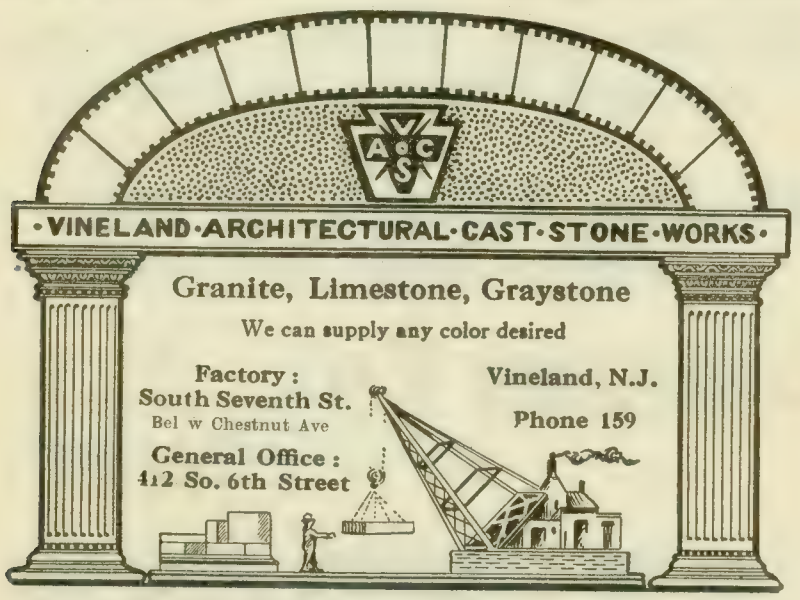
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 29

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July 21, 1926

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As The Editor Sees It

PRACTICAL POINTERS ON GOOD CONSTRUCTION FROM THE MAN ON THE JOB

Due to powerful advertising campaigns on the part of the manufacturers of sevtral insulating materials, more thought is being given to this subject of insulation in connection with home building than ever before.

It is unfortunate that some of the manufacturers of insulating materials feel that they must condemn all the old basic materials in order to sell their product. However, there is little doubt that it will pay the home builder well to use an insulating material in certain parts of his construction.

The leakage of heat or cold through an 8-inch or 12-inch brick wall is exceedingly small. It is well known that the home enclosed in a brick wall retains the warmth on the inside in the winter time, that it keeps out the heat in the summer time. The brick house is always the most comfortable house, and the most economically heated. The claim sometimes is made that the frame house is warmer, and they offer as proof the fact that heat and cold penetrate a solid piece of wood very slowly. In fact you could have one side of a piece of wood blazing with fire and still hold your hand on the opposite side without discomfort. This is undeniable. The incompetency of this test, however, is that no house is built of one solid piece of wood. Frame construction consists of studding, set from 16 to 24 inches apart, with sheathing on the outside, usually paper outside the sheathing under the clapboard or siding, and on the inside of the studding lath and plaster.

The house when new and newy painted offers unquestionably, excellent resistance to low temperatures. But the difference between wood and brick is that wood shrinks and checks and cracks, that it separates at the joints, and the leakage in a new wooden home as compared with the leakage in an old one shows a wide variation. This leakage occurs in spite of frequent repair and repainting. It is this expense which throws the advantage of economy to the brick house, because the brick wall does not need repair or decoration.

The insulating materials are much more necessary in a wooden house than in a masonry house, but it is true that this insulating, even on the inside of a masonry house, reduces the leakage and probably pays for itself in comfort and in the saving of fuel.

However, the person building a brick home, a real masonry wall, need not worry about the leakage of heat or cold through the walls themselves. The points to be closely watched and carefully insulated are the windows and door openings, the floors and the roof. If the house is built without a basement it will pay the owner well to use insulating material under the finished floor and in every house, no matter what roofing material is used, it will pay well to use an insulating material on the under side of the rafters.

Go into your attic on a cold day and note the temperature. Also note the temperature on a hot day. The temperature of an unfinished attic will not vary much from the temperature outdoors. This makes the house harder to heat in the winter and almost impossible to keep cool in the summer.

No tests have ever come to my attention which conclusively show the relative insulating value of different materials. Some very extravagant claims are made in the advertising of the insulation manufacturers. These materials are usually made of some fibrous substance, and when

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pressed together the sheets of boards contain myriads of small air cells, just as an ordinarily porous brick does. It is these infinitesimal air cells which form good insulation.

If your house is entirely enclosed with brick, we recommend at least that you use insulation around all openings and on roof and floors. If of any other material than brick, use it throughout.

Here are some interesting figures given by Howard F. Weiss in an article in a recent issue of *American Forests,* the results of tests made by him on heat transmission through the walls and roofs of dwelling houses:

Kind of Wall or Roof	Heat loss thermal units per hr. per sq. ft. per 1 degree F. transmitted through wall or roof. Uninsulated	Insulated	Saving in heat due to insulation (Per Cent)
Frame wall	0.267	0.179	32.9
Frame stucco	0.410	0.227	44.7
Brick wall, 8-in. thick.	0.351	0.207	41.0
Brick veneer, 4-in.....	0.235	0.161	31.6
Hollow tile wall, 8-in..	0.495	0.250	49.5
Wood shingle roof....	0.304	0.190	37.5
Asphalt shingle roof..	0.526	0.258	51.9
Slate shingle	0.422	0.231	45.3
Copper shingle	0.564	0.267	52.7
Zinc shingle	0.482	0.248	48.6

Building Economy.

GARAGE VENTILATION GAINING IN IMPORTANCE IN SHEET METAL TRADES

Building trades figures for the past six months indicate that there is a steady program of building construction, not only for private homes but in the industrial and business world as well. To secure advantages of this large construction program, the successful sheet metal tradesman is surveying the future possibilities of increasing his business.

A powerful and popular campaign is being waged against carbon monoxide, (automobile engine exhaust gas), that promises a further increase in business to the sheet metal trade. To best understand the application of this insidious poison to the industry, is to understand the action of carbon monoxide gas and the shortcomings in preventing its terrific toll.

For years health and government authorities, backed by physicians, nurses, and other powerful agencies have been educating the public against the dangers of this poison. This movement has apparently reached its height this spring with more than 20,000,000 automobiles registered in the United States alone and a contemplated 1926 production of 3,000,000 more.

While more than 65 per cent. of this huge total is kept in private garages, the remaining eight millions or more are daily stored in the public garage. And herein lies the application of this insidious poison to the sheet metal trade.

But relatively few of these public garages are equipped with adequate ventilating systems to eliminate this poisonous gas from the running automobile engines. Investigators have determined that from one and one half minutes to three minutes exposure is all that is necessary to cause death from carbon monoxide, showing the necessity for affecting the immediate release of this gas into the outer air.

But how does this affect the sheet metal trade?

In the first place, so great has become the sentiment broadcast by health propagandists that the general public is degandists that the general public is demanding the use of adequate ventilating systems to eliminate this poisonous gas from both public and private garages. The importance of proper ventilation precautions as a health factor in both the large and small garage is now more easily impressed upon the garage builder than ever before. Likewise, the popular sentiment of both private and commercial automobile owners is concentrated against carbon monoxide. From a purely business standpoint, this agitation is lending itself to the sheet metal trade in an increasing demand for more adequate

(Continued on page 467)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Bank Building (alts.), Fourth and Market streets, Philadelphia. Architects, Simon & Simon, 24 9South Juniper street, Philadelphia. Owners, Central Trust & Savings Co., Clement J. Crafts, president, on premises. General alterations. Plans in progress. Too early for details.

Sales Building (add.), 5511 Walnut street, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owner, Earle Mylecraine, on premises. Brick, steel. Plans completed.

Building (alts.), 122 South Eighteenth street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations. Architect taking sub-bids due as soon as possible.

Residence and Garage (alts. and add.), 301 Gowen avenue, Philadelphia. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owner, Frank P. Brooks, on premises. Stone, 1 story and basement, 37x20 feet, slag roof, cement and pine floors, plumbing, mil lwork, heating extension, electric light. Owner will build.

Stores (9), Apartments, Elmwood avenue and Seventy-third street, Philadelphia. Architect engineer, M .M. Boonin, 17 South Seventeenth street, Philadelphia. Owner, Alfred J. Taxis, 6019 Market street, Philadelphia. Brick, 2 stories, 16x57 feet, slag roof, pine and oak, composition floors, hot water heat, electric light, hollow metal skylights, flush bulks, iron stairs. Owner taking sub-bids due as soon as possible.

Office and Loft Building, Northeast Corner Thirteenth and Wood streets, Philadelphia. Architects, Stuckert & Co., 1420 Chestnut street, Philadelphia. Owners, M. L. and B. W. Heid, care of Barber, Hartmann Co., Commonwealth Building. Brick, cut cast stone, steel, concrete, 8 stories and basement, 143x71 feet, vacuum heat, electric light, metal lath, kalamain doors, bond, floor hardener, iron stairs, ornamental iron work, plumbing, elevators, terra cotta, hollow tile, cement and tile floors, composition roof, oil burning equipment, sprinkler systems, steel toilet compartments, steel stack, demolition, area gratings, tin-lined fire doors. Architects taking bids due July 22nd at noon.

Church, Hancock and York streets, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Alpha Baptist Church, on premises. Architects taking bids due July 27th, 5 P. M.

Swimming Pool, Ridge avenue and Ferry road, East Falls, Philadelphia. Architect, Ralph E .White, Pennsylvania Building, Philadelphia. Owners, Bureau of Recreation, 595 City Hall. General construction. Owners taking bids due July 23rd, 11 A. M. (Standard Time). Certified check, 5 per cent.

Supplies, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due August 3rd, 11 A. M. (Standard Time). Auditorium curtains, steel lockers, steel shelving, etc.

Contracts No. 18 and No. 19, miscellaneous wire, Philadelphia. Owners, Pennsylvania Railroad, Montgomery Smith, Seventeenth and Filbert streets, Philadelphia. Owners taking bids due July 29th.

Supplies, Philadelphia. Owners, Department of Supplies, E. J. Lafferty, 312 City Hall. Owners taking bids due July 23rd, 11 A. M. (Standard Time) for Portland cement, paving gravel. Certified check, 5 per cent. of bid.

Gas Station, Northwest Corner Fifth and Bristol streets, Philadelphia, $25,000. Owners, Gulf Refining Co., 1515 Locust street, Philadelphia. Brick, 1 story, 21x26 feet. Permit issued.

Manufacturing Building, 1107 Dunton street, Philadelphia, $4,000. Engineers, M. Ward Easby Co., 1505 Race street, Philadelphia. Owners, Ajax Metal Co., 46 Richmond street, Philadelphia. Brick, 1 story, 20x50 feet. Permit issued.

Garage, North side Hermit lane, East of Ridge avenue, $2,000. Architect, private plans. Owner, John Daubert, 486 West Walnut lane, Philadelphia. Brick, 1 story, 20x60 feet, slag roof, cement floors, electric light. Permit issued.

Residences (48), North and South sides Roseland street, Fourth to Fifth streets, $194,000. Architect, private plans. Owner, Louis Segal, 5602 North Tenth street, Philadelphia. Brick, 2 stories, 15x28 feet, 9x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Gas Station, Southeast Corner Adams and Whittaker streets, Philadelphia. Architect, private plans. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, 1 story, 14x18 feet. Permit issued.

Residences (6), South side Hartel street, East of Erdrick street, $4,500 each. Architect, private plans. Owner, L. T. Saffon, 7940 Frankford avenue, Philadelphia. Brick, 2 stories, 18 feet 4 inches x 45 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Gas Station, North side Packer avenue, East of Broad street, $3,500. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Frame, 1 story, 14x14 feet. Permit issued.

Residences, North side Coulter street, West of Fox street, Philadelphia, $17,000. Architect, private plans. Owner, G. H. English, 72 West Chelten avenue, Philadelphia. Stone, 2 stories, 16x20 feet, slag roof, hot water heat, electric light. Permit issued.

Residences (2), East side Silverwood street, North of Levering street, $8,000 total. Architect, private plans. Owner, G. A. Klugh, 4636 Mansion avenue, Philadelphia. Brick, 2 stories, 16x45 feet 7 inches, slag roof, pine floors, hot water heat, electric light. Permit issued.

Storage Building, 3548 Ruth street, Philadelphia, $5,200. Architect, private plans. Owner, Edw. J. Ems, 3547 Kensington Ave., Philadelphia. Brick, 3 stories, 20x70 feet, slag roof, electric work. Permit issued.

Residences (9), North side Alcott street, East of Rising Sun avenue, $4,700 each. Architect, private plans. Owner, Joseph W. Hannigan, Northwest Corner Sentner and Reach streets, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Garage, 3220-22-24 Memphis street, Philadelphia, $4,500. Architect, private plans. Owner, Antonio Renzi, 3043 Frankford avenue, Philadelphia. Brick, 1 story, 49x50 feet 6 inches, slag roof, cement floors, electric light. Permit issued.

Residences (27), 6102-54 Vandyke street, Philadelphia, $3,700 each. Architect, private plans. Owner, Charles A. Mahon, 5640 North Fifth street, Philadelphia. Brick, 2 stories, 16x25 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Garage, 3018-20 Chatham street, Philadelphia, $2,500. Architect, private plans. Owner, Eugene L. Zobel, 2997 Cedar street, Philadelphia. Brick, 1 story, 36x82 feet, slag roof, cement floors, electric light. Permit issued.

Garage, 412 Conarroe street, Philadelphia, $2,500. Architect, private plans. Owner, W. F. Kinney, 4354 Mitchell street, Philadelphia. Brick, 1 story, 41x19 feet, slag roof, cement floors, electric light. Permit issued.

Miscellaneous Work, Philadelphia. Architect, Department of Public Works, Bureau of City Property, 216 City Hall. Reconstruction of approach to tower elevator, City Hall. Aramingo Square Park, soil treatment and miscellaneous work. Demolition and removal of stone buildings, brick and wood building and shed on old Town Hall site, Germantown and Haines St., Philadelphia. Certified check 5 per cent. of bid. Owner taking bids due July 27th 11 A. M. (S. T.)

Parochial School, Church and Griscom St., Frankford, Philadelphia. Architect, Hoffman Henon, Finance Building, Philadelphia. Own-

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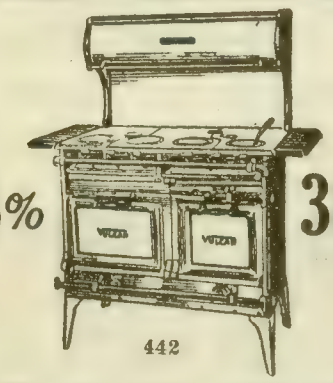
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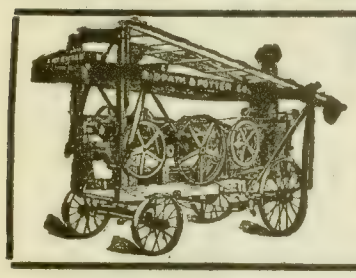
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er, St. Jochim Roman Catholic Church, Rev. J. Dever, on premises. Stone, brick, steel, 3 stories. Plans in progress.

Sewers, Philadelphia. Owner, Dept. of Public Works, Bureau of Highways, 216 City Hall. Schedule A, Main Sewers, Fairmount Park, Wissahickon Avenue to Lincoln Drive. B: Sewage Disposal project, Wingohocking St. and Palethrope St. Tacony Creek, collecting sewer. Schedule C, South Philadelphia Track elevation, Cont. 211. Certified check 5 per cent. of bid. Owner taking bids due July 28th 11 A. M. (S. T.)

Residences (4), Claridge St., Shelmire and Faunce Streets, $19,000. Architect, private plans. Owners, Betzel Bros., 1227 Shelmire Street, Philadelphia. Brick, 2 stories, (2) 24x38 feet, (2) 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residence and Store, 1362 Unity Street, Philadelphia, $12,700. Architect, Samuel D. Milnor, 1117 Foulkrod St., Philadelphia. Owner, Bingio Galione, 1536 Unity Street, Philadelphia. Brick, 2 stories, 25x54 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (4) 1128-30 North Thirty-first street and 838-40 North Thirty-**second St.,** Camden, N. J., $16,000. Owner, Wm. Townsend, 3129 River Ave., Camden, N. J. Frame, stucco, 2 stories, 14x38 feet, Carey roof, hot water heat, electric light, pine floors. Permit issued.

Laundry Building, Girard and Corinthian Avenues, Philadelphia . Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, Girard College, on premises. Brick, stone, steel, 2 stories, 40x60 feet, slag roof, cement floors, steam heat, electric light, metal lath, rolled steel sash, ornamental iron work. Contract awarded to Day & Zimmerman, 1600 Walnut street, Philadelphia, who are taking sub bids on all lines due as soon as possible.

Dining Hall, Girard and Corinthian Avenues, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owner, Girard College, on premises. Cement, concrete work, mill work, carpentry, excavation. Contract awarded to Day and Zimmerman, 1600 Walnut St., Philadelphia, who are taking sub-bids on all lines.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Residence, North side Ferndale Street, west of Verree Road, $5,000. Architect, private plans. Owners, McKeown & Miller, 3312 I Street, Philadelphia. Frame, 2 stories, 28½x38 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to Norman Hoffman, 2926 E Street, Philadelphia.

Residence (alts.), northeast corner Fifty-first and Wynnefield Ave., $3500. Owner, Wm. Goldstein, 1415 Locust St., Philadelphia. General alterations. Contract awarded to S. H. Levin, Elrae Building, Philadelphia.

Residence (alts. and add.), North side Bells Mill Road, west of Stenton Ave., Philadelphia, $3500. Owner, Wm. Steele, 3rd, 219 North Broad Street, Philadelphia. Brick, 1 story addition, 8x17 feet, general alterations. Contract awarded to Wm. Steele & Sons Co., 219 N. Broad St.

Building (alts.), Northwest corner Midvale and Ridge Avenues, $2,000. Architect, private plans. Owners, Palestine Hall Association, on premises. General alterations. Contract awarded to J. L. Fawley, 1615 Spruce St., Philadelphia.

Office Building, 1420-22 Walnut street, Philadelphia, $800,000. Architect, Ralph B. Bencker, northeast corner Thirteenth and Chestnut street, Philadelphia. Owner, Chancellor Realty Co., care of Architect. Brick, architect terra cotta, limestone, granite, steel, 15 stories and basement, 176x153 feet, slag roof, cement floors, hollow tile, elevators, roof ventilators, waterproofing, ornamental iron work, iron stairs, metal toilet partitions, demolition, bronze, ornamental plaster, marble and terrazzo work, metal lath. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Building (alts.), 1617 Ranstead street, Philadelphia. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owner, S. S. Pennock, 1607 Ludlow street, Philadelphia. Brick, cut stone, 3 stories and basement, 50x18 feet (plumbing, heating and electric reserved), Barrett Specification roof, cement and maple floors, plastering, painting and glazing, shoring, concrete work, metal lath,

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ornamental iron work, demolition, bluestone. Contract awarded Barclay White Co., 1713 Sansom street, Philadelphia.

Residence, Gate lane, Chestnut Hill, Pa., $33,000. Architect, Robert Rodes McGoodwin, 1600 Walnut street, Philadelphia. Owner, Dr. George Woodward, North American Building, Philadelphia. Stone, 3 stories, 50x32 feet, 10 feet 6 inches x 16 feet, carpentry and mill work. Contract awarded John E. Walt, 204 East Willow Grove avenue, Philadelphia.

Alterations and Additions, 1318-20 Chestnut street, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Thresher Brothers, on premises. Brick ,cut stone, concrete and cement work, demolition, electric work, hardware, steam heat, electric light, miscellaneous iron work, plastering, painting and glazing, shoring, structural steel. Contract awarded F. V. Warren Co., 1913 Arch street, Philadelphia.

Store (alts. and add.), Southwest Corner Walnut and Camac streets, Philadelphia. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owner, Louis Sterling, on premises. Electric work, metal lath, tile and marble work, carpentry and mill work, painting and glazing, ornamental iron work, demolition. Contract awarded S. H. Levin, Elrae Building, Philadelphia.

Alterations, 121-25 South Third street, Philadelphia. Architects, Edwards & Hoffman, 315 South Fifteenth street, Philadelphia. Owners, Philadelphia Quartz Co., on premises. Electric work, metal weather stripping, hardware, rubber tile floors, painting and glazing, plastering, cabinet work, marble work, brick work, demolition, granite, bluestone. Contract awarded R. C. Ballinger Co., 925 Walnut street, Philadelphia.

Factory Building, Hunting Park avenue and Sonath street, Philadelphia. Architect, private plans. Owners, Electric Storage Battery Co., on premises. Brick, steel, 2 stories, 169x189 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash. Contract awarded William Steele & Son, 219 North Broad street, Philadelphia.

Residence (alts.), Quincey and Carpenter streets, Philadelphia. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Dr. J. T. Ullom, on premises. Brick work, stone work, carpentry and mill work, painting, tile, plumbing (hot water heat, alterations). Contract awarded S. Harting & Son, 20 East Johnson street, Philadelphia.

Residence, Vaux and Coulter streets, Philadelphia, $10,000. Architect, private plans. Owner, Joseph D. Bachman, 3114 North Fifteenth street, Philadelphia. Stone, brick, 2½ stories, 40x25 feet, slate roof, oak, pine and cement floors, painting and glazing, plumbing, hot water heat, electric light, metal lath, tile work, ornamental iron work. Contract awarded C. C. Eddleman, 1627 Sansom street, Philadelphia.

Moving Picture Theatre (alts.), Northwest Corner Tenth and Ritner streets, $19,283. Architect, private plans. Owners, Nelson & Avart, 2412 South Sixth street, Philadelphia. General alterations. Contract awarded to L. C. Manz, 2033 Arch street, Philadelphia.

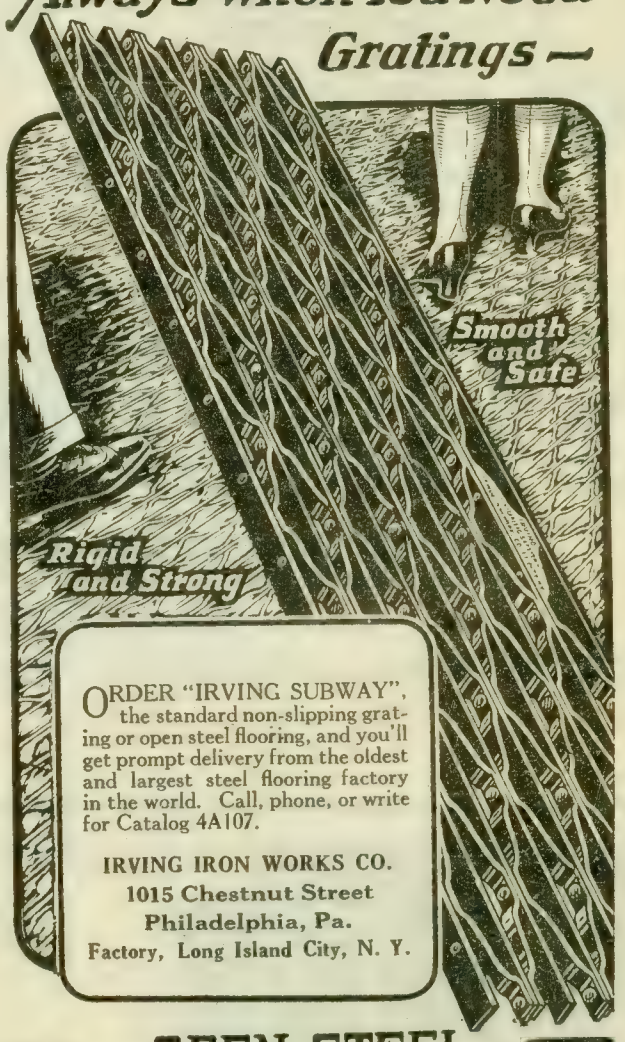
Residence, South side Tinicum avenue, West of Eighty-seventh street, $6,000. Architect, private plans. Owner, Louis A. Moene, 8400 Crothers avenue, Philadelphia. Brick, 2 stories, 16x33 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to George J. Blong, 7741 Lyons avenue, Philadelphia.

School (alts.), Park avenue and Susquehanna avenue, Philadelphia, $5,000. Architect, Paul Monaghan, 1713 Sansom street, Philadelphia. Owners, Our Lady of Mercy, Rt. Rev. J. A. Whitaker, on premises. General alterations. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Garages, Northwest Corner Roosevelt Boulevard and Summerdale street, Philadelphia, $4,780. Architect, private plans. Owner, Charles Gross, Land Title Building, Philadelphia. Brick, 1 story, 74x17 feet 9 inches, slag roof, cement floors. Contract awarded to John W. Emery Co., 34 South Sixteenth street, Philadelphia.

School, Ogontz avenue and Nedro street, Philadelphia. **School, Olney School (add.),** Tabor road and Water street, Philadelphia. **School,** Hancock and Wildey streets, Philadelphia. **Randall School,** Eighth and Bainbridge streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contract awarded School, Ogontz avenue and Nedro street, McCloskey Co., 1620 Thompson street, Philadelphia, $423,234; electric, Ross Electric Co., 106 Fairmount avenue, Philadelphia, $15,848; plumbing, Fred Wackenhut, 2416 Frankford avenue, $18,750; heating, L. J. Somers & Son, 2736 Brown street, Philadelphia, $43,751. Contract awarded Olney School: Kober Const. Co., 34 South Seventeenth street, Philadelphia, $236,668; heating, Thompson Brothers, 512 Buttonwood street, $26,700; plumbing, Philadelphia Piping & Equipment Co., 1605 Rockland street, $11,300; electric, Walker-Kepler, 530 Chestnut street, Philadelphia, $6,620. Contract awarded School, Hancock and Wildey streets: Cramp & Co., Denckla Building, Philadelphia, $340,000; plumbing, W. J. Newell & Son, 2035 Arch street, Philadelphia, $13,676; heating, Thompson Brothers, 520 Buttonwood street, $26,769; electric, E. V. Goldhahn, 17 South Forty-fourth street, Philadelphia, $6,984; ventilating, A. & W. Wegmann, 2813 West Fletcher street, Philadelphia, $1,651. Contract awarded Randall School: E. C. Durrell, 1713 North Twenty-fourth street, Philadelphia, $4,079; heating, Fred Dackenhut, 2416 Frankford avenue, Philadelphia, $1,415; plumbing, Fred Wackenhut, 2416 Frankford avenue,

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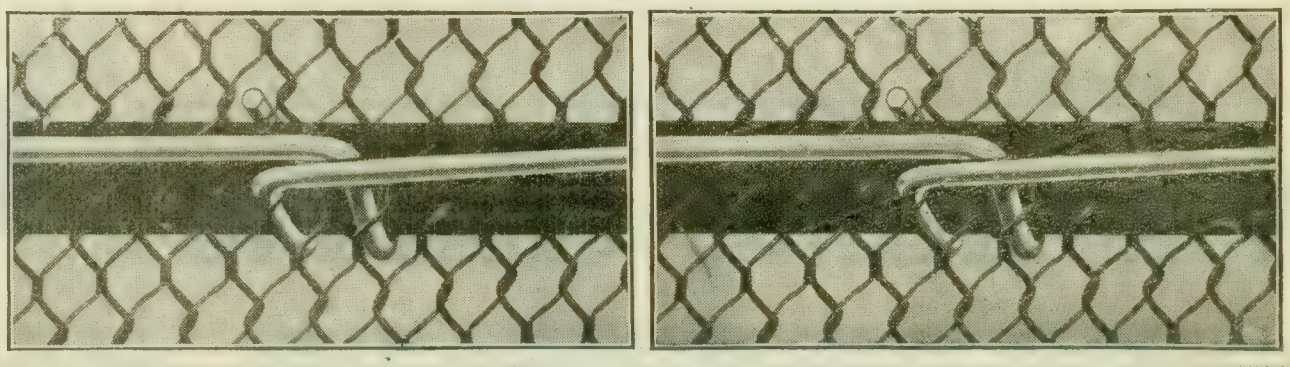
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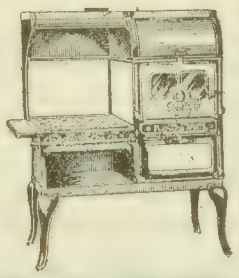
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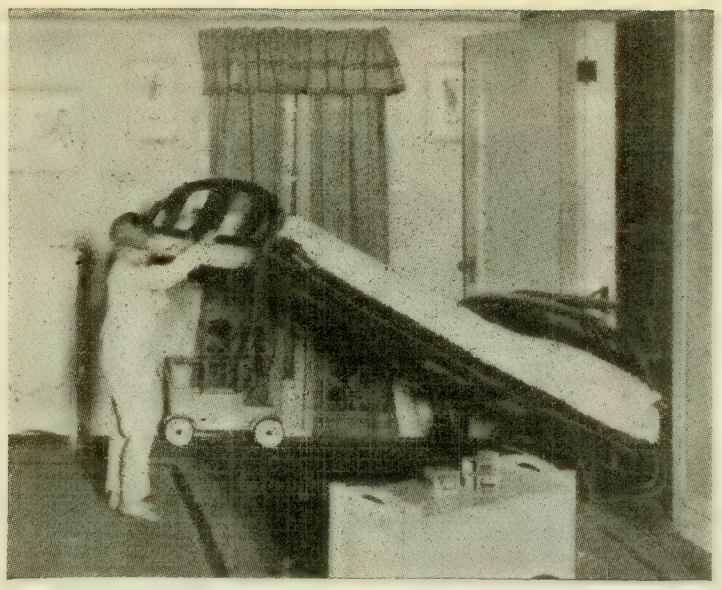
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$1,903. Place of Education, Sesqui Grounds, electric work, contract awarded H. S. Mitchell, 1337 McFerran street, $5,400. Northeast High School, Philadelphia, electric, contract awarded Walker-Kepler, 530 Chestnut street, $7,611.

Residence, Southeast Corner Murray and Dunga nroad, Philadelphia, $9,000. Architect, private plans. Owner, Harry Simons, Andalusia, Pa. Brick, 3 stories, 28x36 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Chancellor Day, 2644 Rhawn street, Philadelphia.

Tunnel Bridges (4), Gladway, Sesqui Grounds, Philadelphia, $6,000 each. Owners, Sesqui-Centennial Association, Broad and Oregon avenue, Philadelphia. Contract awarded to George F. Dobbin, 1020 South Forty-seventh street, Phialdelphia.

Store and Storage Building (add .and alts.), Northwest Corner Twenty-second and Oxford streets, Philadelphia, $6,000. Owner, David Flurer, 2033 South Fraser street, Philadelphia. Brick, 1 story add., 10x16 feet, general alterations. Contract awarded to I. Alterman, 5400 B street, Philadelphia.

Store and Residence (add. and alts.), 2001 North Eleventh street, $5,000. Architect, private plans. Owner, Jacob Sfeifer, 3402 Germantown avenue, Philadelphia. Brick, 1 story add., 16 feet 8 inches x 3 feet, general alterations. Contract awarded to N. J. Kempf, 1343 North Howard street, Philadelphia.

Store (add.), 2638 Frankford avenue, Philadelphia, $2,100. Architect, private plans. Owners, American Rescue Workers, 2837 Frankford avenue, Philadelphia. Brick, 1 story add., 13 feet 5 inches x 34 feet. Contract awarded to L. DeD Luis, 3072 Agate street, Philadelphia.

Apartment and Store (add. and alts.), 3346 North Seventeenth street, $3,000. Architect, private plans. Owner, Lionel Palletz, Bankers' Trust Building, Philadelphia. Brick, 3 stories add., 18x6 feet, general alterations. Contract awarded to Gaetano Salvato, 2211 West Toronto street.

Foundry (alts.), rear of 1631 North Fifth street, Philadelphia, $2,250. Architect, private plans. Owners, Philadelphia Stove & Iron Foundry Co., on premises. Brick, 15x24 feet, fire doors, general alterations. Contract awarded to Henry C. Dahl, 231 South Eighth street, Philadelphia.

Club House (alts.), 1425 Arch street, Philadelphia, $2,000. Owners, Y. M. C. A., on premises. General alterations. Contract awarded to Haverstick & Borthwick, 1505 Race street, Philadelphia.

Garage (alts.), 105 North Twenty-second street, Philadelphia, $3,000. Architect, private plans. Owner, Roland K. Miller, 236 North Twenty-second street, Philadelphia. General alterations. Contract awarded to Richard De Cou, Eleventh and Hamilton streets, Philadelphia.

Laundry, North side Brandywine street, West of Thirty-fifth street, $23,000. Architect, private plans. Owner, Jesse M. Fraser, Forrest and Greenwood avenues, Philadelphia. Brick, 1 story, 40x94 feet, slag roof, electric work, steam heat. Contract awarded to John W. Emery, 34 South Sixteenth street, Philadelphia.

Warehouse (alts.), 1835-37 Market street, Philadelphia, $10,000. Architect, private plans. Owners, Girard Trust Co., Broad and Chestnut streets, Philadelphia. General alterations. Contract awarded to Hubbard & Co., 1835 Market street, Philadelphia.

Residence, West side Southampton street, South of Kelvin street, $9,500. Architect, private plans. Owner, Norman Gould, 5828 North Second street, Philadelphia. Frame, 2 stories, 38x26 feet, hot water heat, electric light, hardwood and pine floors. Contract awarded to D. C. Moyer Co., 2344 North Carlisle street.

Coal Storage Building, East side Sepviva street, South of Butler street. Architect, private plans. Owner, David I. Mann, Butler and Sepviva streets, Philadelphia. Contract awarded to Farming-Schutte Eng. Co., Third and Cayuga streets.

Store and Residence (add.), Southeast Corner Mercer and Ontario streets, $3,000. Owner, M. Meklarz, 2622 Ontario street, Philadelphia. Brick, 1 story add., 14x25 feet. Contract awarded to S. Pietrykowski, 3416 Richmond street, Philadelphia.

Garage (alts.), 2324-26 North Sydenham street, Philadelphia, $10,500. Architect, private plans. Owner, B. M. Miller, Commonwealth Building, Philadelphia. General alterations. Contract awarded to Clymer & Flecher, 2407 South Marshall street.

Store and Residence, 248 South street, Philadelphia, $7,500. Architect, private plans. Owner, Benjamin Goldman, 248 South street, Philadelphia. Brick, 3 stories, 15 feet 10 inches x 26 feet, slag roof, pine floors, electric work. Contract awarded to Laib Rubin, 421 Jackson street, Philadelphia.

Residence (add.), Southeast corner Quincy and Carpenter streets, $4,000. Architect, private plans. Owner, Dr. Josephine T. Nelson, on premises. Brick, 1 story add., 12x19 feet 6 inches. Contract awarded to Samuel Harting & Son, 20 East Johnson street.

Residence, West side Byberry, South of Academy road, $4,000. Architect, private plans. Owners, Mr. and Mrs. Frank Bradfield, on premises. Frame, 3 stories, 28x28 feet, shingle roof, pine floors, electric work. Contract awarded to John L .Kraemer, 612 West Cambria street, Philadelphia.

Residence and Store (add .and alts.), 406 Fitzwater street, $4,000. Architect, private plans. Owner, A. Shuman, on premises. Brick, 1 story add., 13x9 feet, general alterations. Contract awarded to Bragin Brothers, 4237 Ogden street, Philadelphia.

Residence and Store (add. and alts.), 748 South Fourth street, $4,000 Architect, private plans. Owner, A. Shuman, on premises. Brick, 1 story add., 13x6 feet, general alterations. Contract awarded to Bragin Brothers, 4237 Ogden street, Philadelphia.

Store and Residence (alts.), 3222 North Front street, Philadelphia, $2,000. Architect, private plans. Owner, B. V. Oldofsky, on premises. General alterations. Contract awarded to Benjamin Tillinger, 1511 North Marshall street.

Testing Department Building, 62-64 West Johnson street, Philadelphia, $5,000. Architect, private plans. Owners, Estate of John G. Gray, on premises. Brick, 1 story, 30x54 feet. Contract awarded to A. L. Carhart, 1328 Chestnut street, Philadelphia.

Garage, 200-02 Yelland street, Philadelphia, $4,500. Architect, private plans. Owner, S. Wilter, on premises. Brick, 1 story, 30x80 feet, slag roof, cement floors. Contract awarded to Frank Radomski, 4329 North Sixteenth street, Philadelphia.

Factory (add.), 4949 Mulberry street, Philadelphia, $3,500. Architect, private plans. Owners, Allen Hosiery Co., on premises. Brick, 2 stories add., 19x30 feet. Contract awarde dto George O. Good, 5649 Mascher street, Philadelphia.

Pennsylvania Construction News

Residence and Garage, Merion, Pa. Architect, Thomas Martin and Kirkpatrick 220 S. Sixteenth street, Philadelphia. Owner, James A. MacMeekin, Merion, Pa. Stone, 2½ stories and basement, 66x30 feet, variegated

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Apartment House, Chester, Pa. Architect, Frank C. Watson, Chester, Pa. Owner, Adam Perski, Chester, Pa. rick, 2 stories and basement, 50x70 feet, slag roof, oak and pine floors. Architect taking bids due as soon as possible.

Church, Chester, Pa. Architect, Wilson Eyre McIlvaine, 1003 Spruce Street, Philadelphia. Owner, St. Mary's P. E. Church, Chester, Pa. Brick, stone, steel. Plans in progress.

Court House (alts. and add.), Media, Pa. Architect, C. W. Brazier, Chester, Pa. Owner, Delaware Co. Commissioners, H. M. Birney, President, Media, Pa. Stone, general alterations and addition. Plans in progress.

Parish House, Montrose, Pa. Architects, T. I. Lacey & Son, 1100 Press Building, Binghamton, N. Y. Owners, St. Paul's Episcopal Church, Rev. R. Weatherly, Montrose, Pa. Brick, 1 story and basement, 30x52 feet, Architects taking bids.

Bank Building, Pottsville, Pa. Architects, Mowbray & Uffinger, 221 W. 57th St., New York. Owners, Miners National Bank, J. S. Ulmer, Pres., 21st and Norwegian Sts., Pottsville, Pa. Stone, 1 story, 57x145 feet. Architects will be ready for bids next week.

Grade School, Shamokin, Pa. Architect, D. H. Grootenbeer, Schuylkill Trust Building, Pottsville, Pa. Owner, Coal Township School District, W. E. Beilski, Secretary, 1557 Oneida St., Shamokin, Pa. Brick, 1 story and basement, 0x90 feet, (heating, plumbing and electric separate). Owners ready for bids due August 7th.

Grade School, Frackville, Pa. Architect, D. H. Grootenbeer, Schuylkill Trust Building, Pottsville. Owners, W. Mahanoy Township School District, Wm. Joyce, Sec., Lost Creek, Pa. Frame, 1 story, 58x76 feet. Plans in progress.

Residence, Meadowbrook, Pa. Architect, DeArmond Ashmead and Bickley, 20 South 15th Street, Philadelphia. Owner, J. S. Wharton, care of architect. Stone, hollow tile, frame stucco, 2 stories, 38x82 feet, shingle roof, hardwood floors, vapor heat, electric light, tile work. Architect taking sub-bids.

Store and Apartments (2), Third and Fulton Streets, Chester, Pa. Architect, A. Coshland, 8th and Edgemont Sts., Chester, Pa. Owner, A. Kleiman, on premises. Brick, 2 stories. Architect and owner taking bids.

Home Building, Belmont avenue, Bala, Pa. Owners, Edwin Forrest Home, care of W. E. Herring, president of Building Committee, 126 North Twelfth street, Philadelphia. Work contemplated.

Factory (alts. and add.), Bethlehem, Pa. Architect, C. F. Spangenberg, 504 Broadway, Bethlehem, Pa. Owner, Adolphus Dornblott, 414 South New street, Bethlehem, Pa. Brick, 2 stories add., 40x55 feet. Plans in progress.

School, Swarthmore, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Delaware County, Pa. Brick. Plans in progress.

Apartments (alts. from Residences), Somerset avenue, Windber, Pa. Architect, H. L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Berwind-White Coal Mining Co., Windber, Pa. Plans completed.

School, Thorndale, Pa. Architects, Scholl & Richardson, Fifth and Walnut streets, Reading, Pa. Owners, Thorndale School Board, Margaret Wood, president, Thorndale. Brick, 1 story, 8 rooms, slate roof. Plans in progress.

Apartment House, Front street, Harrisburg, Pa., $400,000. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, care of architect. Fireproof, 6 stories, 150x150 feet, composition and maple floors, tile and marble, hollow tile, electric light, metal lath. Too early for details.

Residence, Lewistown, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, William Cunningham, Citizens' National Bank Building, Lewistown, Pa. Stone, stucco, 2 stories, 80x20 feet, 20x30 feet, tile roof, hardwood floors, electric light, tile work. Plans in progress.

Hospital (add. and alts.), Third and Brigg streets, Harrisburg, Pa. Architects ,Kast & Kelker, 222 Market street, Harrisburg, Pa. Owner, Dr. G. W. Hartman, on premises. Brick, 4 or 5 stories, composition floors, heating extension, electric light. Plans in progress.

Temple (add.), North Third street, Harrisburg, Pa., $40,000. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Orioles Home Association, R. L. Bingman, secretary, 1631 Hunter street, Harrisburg, Pa. Fireproof, 3 stories. Plans in progress.

Church (new front and alts.), Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, Bethel A. M. E. Church, care of architect. Brick, stone trim, interior alterations. Plans in progress.

School, Boothwyn, Pa. Architects, H. Rex Stackhouse and W. W. Donohue, 266 South Fifteenth street, Philadelphia. Owners, Upper Chichester Township Board of Education, F. B. Albany, Boothwyn, Pa. Revised plans in progress. Will be ready for bids in two weeks.

Garage and Apartment (alts.), Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, D. W. Rauck, care of architect. Concrete building, 2 stories, 30x80 feet. Plans in progress.

Lodge Building, 306 High street, Pottstown, Pa. Architects, Whitman & Royer, 47 East Market street, York, Pa. Owners, Pottstown Aerie of Eagles, 264 High street, Pottstown, Pa. Brick, stone, 3 stories and basement, 55x150 feet. Plans in progress.

School (add.), Bart Township, Lancaster County, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Bart Township School Board, care of architect. Brick, 1 story, 4 rooms, composition roof, pine floors, electric light. Architect ready for bids July 23rd.

Junior High School, Leola, Upper Leacock Township, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Upper Leacock Township School Board, care of architect. Brick, steel, 1 story and basement, 150x200 feet, slate and concrete roof, wood floors, concrete block, bond, fireproofing, skylights, metal lath, steel sash (heating, plumbing and electric separate). Architect ready for bids July 22nd.

Public Comfort Station, Pottsville, Pa. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owners, City of Pottsville, City Hall, Pa. Brick, concrete, steel, 1 story, 65x26 feet, 42x23 feet, slag roof, ce-

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ment floors, plumbing, steam heat, electric light, metal lath, tile and marble work, metal ceilings, membrane and integral waterproofing, ornamental iron work, steel partitions. Architects taking bids due July 23rd.

Grade School, Carlisle, Pa. Architects, Lawrie & Green ,116 Locust street, Harrisburg, Pa. Owners, Carlisle School Board, Thomas Vale, secretary, Carlisle, Pa. Steel, fireproof, 2 stories and basement, 119x80 feet, slate roof, maple floors, hollow tile, safety treads, roof ventilators, metal weather strip, dampproofing, ornamental iron, iron stairs, bond, rolled steel sash, metal lath (heating, plumbing and electric separate). Owners taking bids.

Rectory, Mahonoy Plane, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, care of Rev. P. J. Fleming, Mahonoy Plane, Pa. Frame, stucco, 3 stories and basement, 35x37 feet, 17x16 feet, asbestos shingle roof ,hardwood floors (heating and plumbing reserved), tile work, electric light. Architect takin gbids due as soon as possible.

Assembly Hall (alts. and add.), Bustleton, Pa. Architect, C. H. Fries, Drexel Building, Philadelphia. Owners, St. Luke's the Beloved Physician, Rev. Paul Micou, Bustleton, Pa. Stone, 16x20 feet, 10x30 feet, hot water heat, electric light, tile work, wood shingle roof, maple floors. Architect taking bids due July 30th.

Home and Bank Building, Sixth and Maclay streets, Harrisburg, Pa. Architect, C. Harry Kahn, 32 North Second street, Harrisburg, Pa. Owners, Brotherhood's Relief and Compensation Fund, Harrisburg, Pa. Brick, cut stone, steel, 8 stories and basement, 177x127 feet, slag roof, cement, pine and maple floors, hollow tile, elevators, steam heat, electric light, metal lath, tile, marble and terrazzo work, rolled steel sash, steel fire doors, bond, store fronts, ornamental iron work, waterproofing, mail chutes, ice plant, steel partitions, stack, incinerator, dumb waiters, acoustics, kitchen and cafe equipment, built-in beds, bronze work. Contracts awarded on structural steel, iron work, steel sash, cut stone, elevators, store fronts and entrances. Architect taking bids due July 30th.

Junior High School, Mansfield, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Mansfield School Board, care of architect. Semi-fireproof, 2 stories, 90x175 feet, built-up roof, pine floors, roof ventilators, safety treads (heating, plumbing and electric separate). Architects will be ready for bids August 1st.

Stores and Apartments (12), Second street, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Wolfe Shop, 207 North Second street, Harrisburg, Pa. Brick, steel, architectural terra cotta, 3 stories, 35x75 feet, slag roof, hardwood floors, hollow tile, city heat, electric light, metal lath, plate glass, bronze, concrete work. Architect taking bids.

High School, West York, Pa. Architects, Whiteman & Royer, 47 East Market street, York, Pa. Owners, West York School Board, care of architects. Brick, steel, fireproof, 2 stories and basement, 174x60 feet, composition roof, maple and composition floors, safety treads, roof ventilators, hollow tile, ornamental iron, steel sash, metal lath (heating, plumbing and electric separate). Ready for bids in two weeks.

School (alts.), Hall, Gymnasium and Auditorium, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, St. Mary's Roman Catholic Church, Rev. F. J. Brecker, York, Pa. Brick, steel, 2 stories, 118x56 feet, flat roof, cement and hardwood floors, hollow tile, roof ventilators, metal ceilings, tile and marble work (heating, plumbing and electric separate). Architect will be ready for bids in two weeks.

Refreshment Stand, Roosevelt Field, Markley and James streets, Norristown, Pa. Owners, Board of Directors, School District, H. R. Kratz, Norristown, Pa. Plans and specifications on file in Secretary's office, High School, DeKalb street, Norristown. Certified check, 5 per cent. Owners taking bids due July 30th, 4 P. M. (Standard Time).

Paving, Norristown, Pa. Engineer, S. C. Corson, Norristown, Pa. Owners, Highway Commission, H. Severn Regar, chairman, Norristown, Pa. Reinforced concrete, approximately 5,400 square yards. Certified check 5 per cent. to the order of H. P. Hiltner, Borough Treasurer. Deposit, $5.00, refunded. Owners taking bids due July 29th, 7 P. M. (Standard Time).

Portable School, Whitemarsh Township, Montgomery County, Pa. Owners, Board of School Directors, H. Oscar Young, Plymouth Meeting, Pa. Erection of 1-room portable fireproof school. Owners taking bids due July 22nd.

Pennsylvania Contracts Awarded

Store (alts. and add.), Third and Wilson streets, Chester, Pa. Architect, F. C. Watson, Chester, Pa. Owner, Name withheld. General alterations. Contract awarded Jacob Zomick, Chester, Pa.

Residence, Merion, Pa. Architect, Charles Barton Keen, 338 S. Smedley St., Philadelphia. Owner, S. W. Heaton, Merion, Pa. Brick, frame, 3 stories, 32x49 feet, wing 12x29 feet, Porch, 12x32 feet, slate roof, hardwood floors, wire lath, tile work, (vapor heat, electric light, plumbing, reserved), ornamental iron work. Contract awarded M. W. Young, 2037 North Sixty-third street, Philadelphia.

Residence and Garage, (add. and alts.), Hazleton, Pa. Architect, J. B. Chamberlain, Hazleton Bank Building, Hazleton, Pa. Owner, care of architect. General alterations and addition, plumbing, electric work. Contract awarded to W. F. Thomas, Hazleton, Pa.

Store and Apartment Building, Hazleton, Pa Architect, J. B. Chamberlain, Hazleton Bank Building, Hazleton, Pa. Owner, J. R. Holman, 1 North Cedar street, Hazleton, Pa. Brick, 3 stories, 60x80 feet. Contract awarded to Geo. P. Eckert, Hazleton, Pa. Plumbing and heating awarded to Chas H. Sherry, Hazleton, Pa.

Schools (2), Paoli and Strafford, Pa. Architect, Ritter & Shay, Packard Building, Philadelphia. Owner, Treddyffrian Township Board, A. W. Supplee, Paoli, Pa. Brick, hollow tile, cut stone, 1 story and basement, each 155x5 feet, (plumbing, heating, electric separate bids), asbestos shingle composition roof, cement and maple floors, hollow tile, plumbing, roof ventilators, water and dampproofing, ornamental iron work, bond, hollow metal sash and doors, metal lath, electric light Contracts awarded F. K. Worley Const. Co., Wesley Building, Philadelphia, $138,435. Electric: Carroll A. Sherer, Coatesville, Pa., $4,438.80. Plumbing, J. D. Scott and Son, Coatesville, Pa., $8,600. Heating and Ventilating, American Heating and Ventilating Co., Schaff Building, $14,546.

Y. M. C. A., Norristown, Pa. Architects, H. Gordon McMurtrie, 1012 Walnut street; Thomas, Martin and Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Y. M. C. A., Norristown, Pa. Brick, cut stone, granite, 4 stories and basement, 70x31 feet, Barrett Specification roof, cement floors, hollow tile, shoring, waterproofing, architectural terra cotta, metal lath, tile, marble and terrazzo work, hollow metal sash, rolled steel skylights, hollow metal doors, bond, floor hardener, iron stairs, ornamental iron work, demolition, cast stone, alberne stone. Contract awarded H. P. Friend, Norristown, Pa.

Bank Building, Collingdale, Pa. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Collingdale State Bank, C.

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Russell Arnold, Lansdowne, Pa. Brick, stone, cut stone, steel, 1 story and basement, 34x55 feet, slag roof, cement and composition, pine floors, electric light, metal lath, tile work, roof ventilators, dampproofing, ornamental iron work, precast artificial stone, bronze work, area grating, cabinet work, painting and glazing, hardware, plumbing, wrought iron pipe. Contract awarded Bert R. Parker, Glenolden, Pa.

Residence (alts.), Meadowbrook, Pa. Architects, Druckenmiller & Williams, Otis Building, Philadelphia. Owner, Clarence M. Brown, on premises. Hot water heat, electric work, slate work, oak and pine floors, tile and marble work, iron work, carpentry and mill work, plastering, painting and glazing (plumbing, heating, electric separate). Contract awarded H. H. Kratz, Elkins Park, Pa.

Church and Rectory, Bridgeport, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Our Lady of Mt. Carmel, Rev. Manelli, Bridgeport, Pa. Stone, brick, steel, 1 story and basement, 2 stories and basement, 96x49 feet, 31x67 feet, asbestos shingle and tin roof, pine floors, painting and glazing, plumbing, dampproofing, ornamental iron work, limestone, bluestone, bond, tile work, metal lath, electric light, hot water heat, steam heat. Contract awarded Lappanze & Calabrese, Norristown, Pa.

School (add.), Rockledge, Montgomery County, Pa. Architect, C. H. Fries, Frankford and Oxford streets, Philadelphia. Owners, School Board of Rockledge, D. W. Thomson, Rockledge, Pa. Stone, 2 stories, 25x40 feet, slag roof, maple floors, heating extension, mill work, electric light, blackboards. Contract awarded Fesmire Brothers, Huntingdon Valley, Pa.

Hotel (foundations), Pottsville, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Community Hotel Co., Pottsville, Pa. Engineers, Day & Zimmerman, 1600 Walnut street, Philadelphia. Reinforced concrete, 100x300 feet. Contract awarded to Day & Zimmerman, 1600 Walnut street, Philadelphia.

Building (fire repairs), Lafayette road, near West Conshohocken, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Philadelphia Country Club, Bala, Pa. Stone, brick, cut stone, stucco, tile roof, linoleum and cement floors, painting and glazing, hardware, tile and marble work, ornamental iron work, plastering, club house, alterations and additions, concrete work, carpentry and mill work, painting, iron work, marble and tile, plumbing, linoleum floors, hardware. Contract awarded C. C. Eddleman, 1627 Sansom street, Philadelphia.

School (add.), Marcus Hook, Pa. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, School District of Lower Chichester Township, Delaware County, Pa. Contracts awarded: Holden Const. Co., Chester, Pa., $31,500; plumbing, William J. Fowden, Chester, Pa., $1,510; electric, Vernon Elec. Co., Chester, Pa., $522; heating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $449.

Residence, Morris Heights, Pa. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owner, LeRoy Brown, 221 South Cook street, Trenton, N. J. Stucco, hollow tile, 2½ stories, 33x57 feet, slate roof, hardwood floors (plumbing and heating reserved), electric light, tile work. Contract awarded to J. Burks, Trenton, N. J.

School (completion), Wallingford, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School Board of Nether Providence, J. R. Hoover, secretary, Wallingford, Pa. Contract awarded D. A. McClelland, Drexel Building, Philadelphiai. Plumbing, Burton L. Parker, Chester, Pa. Heating, W. P. Fowden, Chester, Pa.

Park School, Willow Grove, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Abington Township, Glenside, Pa. Concrete block, stucco,brick, steel, 1 story and basement, 88x40 feet (plumbing, heating, electric separate), Barrett Specification roof, cement floors, pine floors, painting and glazing, rolled steel sash, waterproofing, ornamental iron work. Contract awarded Tourison Co., 6924 Cresheim road, Philadelphia, $29,415. Heating and plumbing, owners taking bids due August 2nd.

Residence, Morris Heights, Pa. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, Frank E. Warren, Broad Street Bank Building, Trenton, N. J. Frame, stucco, 2½ stories, 26x26 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Dempsey & Hardy, Princeton, N. J.

Residences (add.), Bethayres, Pa. Architects, T. B. Lippincott and C. S. Schaef, 11 South Sixteenth street, Philadelphia. Owner, Walter MacFarland, Bethayres, Pa. Building block, stucco, 2½ stories, electric light, slate roof, pine, cement and linoleum floors, electric light, extension to heating, tile and marble work, general alterations to present building. Contract awarded H. S. Aimee, Ambler, Pa.

Apartments (3) (alts. and add.), Front and South streets, Harrisburg. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, care of architect. Brick, mill work, 2 stories, vapor heat, electric light, tile work, partitio nwork, fire escape. Contract awarded to W. S. Miller, Paxtang, Harrisburg, Pa.

Church, Broad and Cowden streets, Harrisburg, Pa. Architect, F. G. Fahnestock, Patriot Building, Harrisburg, Pa. Owners, St. John's Baptist Church, care of architect. Brick, steel, 1 story and basement, 52x45 feet, slate roof, pine floors, steam heat, electric light. Contract awarded to W. E. Bushey, Lemoyne, Pa.

School (alts.), Mahonoy City, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Joseph's Roman Catholic Church, Rev. P. C. Chesnas, Mahonoy City, Pa. General alterations. Contract awarded to E. R. Bastress, Mt. Carmel, Pa.

Library (add. and alts.), Allentown, Pa. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Allentown Free Library, 914 Hamilton street, Allentown, Pa. Brick, 2 stories add., general alterations. Contract awarded to Ochs Const. Co., 440 Wire street, Allentown, Pa.

Bank and Post Office (alts.), Drexel Hill, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, Drexel Hill Title & Trust Co., Drexel Hill, Pa. Contract awarded Bowden Const. Co., 1607 Summer street, Philadelphia.

High School, Manchester, Pa. Architect, J. B. Hamme, 31 West Market street, York, Pa. Owners, Manchester Borough School Board, care of architect. Brick, 1 story, 60x90 feet, composition roof, maple floors (heating, plumbing and electric separate). Contract awarded to Gross Brothers, Dover, Pa., $15,462. Plumbing, S. N. Boyer, Dover, Pa., $790. Heating, C .C. Kotteamp & Son, 515 West Market street, York, $1,996. Electric, Stough & Lucas, 141 West Market street, York, Pa., $145.

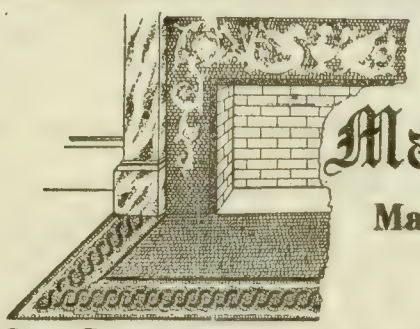
Hospital (add.), Allentown, Pa., $134,581. Architects, Ruhe & Lange, 10 North Sixth street, Allentown, Pa. Owners, Allentown Hospital, E. M. Kronniger, Allentown, Pa. Fireproof, 3 stories, 50x150 feet, slag roof, composition and tile roof, roof ventilators, hollow tile, elevators, safety treads, metal window guards, metal weather strip, waterproofing and dampproofing, ornamental iron work, iron stairs, bond, fire doors, steel sash and skylights, tile and marble, metal lath (heating, plumbing and electric separate). Contract awarded to Ochs Const. Co., 440 Wire street, Allentown, Pa.

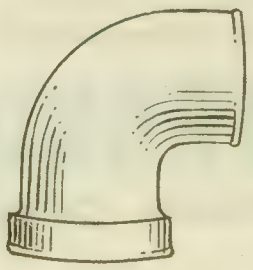
Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Allegheny County, Route 70, S-3, O'Hara Township, Aspinwall Borough. One course reinforced concrete. $115,172.65. Contract awarded to R. L. Cunningham & Sons Co., Turtle Creek, Pa.

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Westmoreland County, R-480, A-4089, Derry Township. One course reinforced concrete. $40,192.60. Contract awarded to Gray Brothers, Youngstown, Ohio.

Somerset County, R-50, A-3137A, North Turkeyfoot Township, Confluence Borough. One course reinforced concrete. $55,949.60. Contract awarded to W. H. Wilkey, Uniontown, Pa.

York County, A-3941, Windsor Township, Red Lion Borough. One course reinforced concrete. $96,858.52. Contract awarded to York Eng. & Const. Co., York, Pa.

Westmoreland County, A-4010, Hempfield and Penn Townships. One course reinforced concrete. $90,667.33. Contract awarded to Payne-Yost Const. Co., Pittsburgh, Pa.

Warren County, A-1833, 1788, Bear Lake Borough, Freehold Township, W. B. Macadam surface course. $50,450.87. Contract awarded to J. C. Devine Co., Alliance, Ohio.

New Jersey Construction News

School, Bettlewood, Haddon Township, N. J. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owners, Haddon Township School Board, C. R. Given, clerk, Bettlewood, N. J. Brick, reinforced concrete, 2 stories. Plans in progress.

School (add.), Gloucester Heights, N. J. Architect, C. R. Peddle, 136 South Fourth street, Philadelphia. Owners, Haddon Township School Board, C. R. Given, clerk, Haddon Township, N. J. Brick, 2-story, 4-room add. Plans in progress.

Van Russ Building (alts.), 23 and 25 Broadway, Camden, N. J., $60,000. Engineer, Max Haupt, Ninth and Walnut streets, Philadelphia. Owner, care of engineer. Elevator shaft, 5 stories, lighting fixtures, electric light, composition floors, elevators and elevator doors, painting and glazing, ornamental iron work. Engineer taking sub-bids due as soon as possible.

Gym and Auditorium (add. to high school), North Wildwood, N. J. Architects, H. Rex Stackhouse and W. W. Donohue, 255 South Fifteenth street, Philadelphia. Owners, Board of Education, D. C. Young, North Wildwood, N. J. Ready for bids in one week.

Church (alts.), Burlington, N. J. Architects, Philadelphia Office, Herbert L. Cain and A. N. Dobbins, 1718 Cherry street. Owners, Broad Street Methodist Episcopal Church, Rev. Dr. Brady, pastor; Joseph Zelley, chairman Building Committee, Burlington, N. J. General interior and exterior alterations. Plans in progress. Will be ready for bids in two weeks.

Bank and Office Building (add.), Fifth and Market streets, Camden, N. J. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Land Title & Guaranty Co., Mr. Holyburton, on premises. Project to be postponed until spring, 1927.

Bank Building, Haddon and Collings avenue, Collingswood, N. J. Architect, J. T. Brugger, Public Ledger Building, Philadelphia. Owners, Collingswood Trust Co., J. T. Par, vice-president, Collingswood, N. J. Brick, limestone, 2 stories, 50x85 feet. Revised plans in progress. Architect will be ready for new bids in one week.

Residence, Haddonfield, N. J. Architect, Harold A. Allen, 526 Stevens street, Camden, N. J. Owner, J. Harold Walton, Haddonfield, N. J. Brick and frame, 2½ stories and basement, 24x30 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron work. Architect taking bids due July 23rd, 7 P. M.

Warehouse, Store and Apartment, Friends avenue and Penn street, Camden N. J. Architect, Howard E. Hall, 218 Weikel avenue, Merchantville, N. J. Owner, Jacob Rosenkrantz, on premises. Brick, steel, 2 stories and basement, 18x100 feet, warehouse, 40x100 feet, slag roof, maple and cement floors, plumbing, metal ceilings, ornamental iron work, metal lath, hot water heat, electric light. Architect taking bids due as soon as possible.

Store and Apartment, Trenton, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Peter Driola, care of architect. Brick, 2 stories and basement, 22x62 feet, composition roof, hardwood floors, hot water heat, electriclight, tile work, plate glass, bronze work, metal ceilings. Architect taking bids.

Residence, Flemington, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Walter Vandegrift, Flemington, N. J. Frame, 2 stories, 40x24 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids.

Bank and Arcade Building, Ocean, Tennessee avenue, Atlantic City. Architects, Lockwood, Greene & Co., 1 Pershing avenue, New York. Owners, Boardwalk National Corporation, Atlantic City, N. J. Brick, steel, stucco, 2 stories and basement, 377x100 feet, slag and tile roof, cement floors, hollow tile, elevators, plumbing, ironite waterproofing, dampproofing, rolled steel doors, iron stairs, ornamental iron work, rolled steel sash and skylights, hollow metal sash, marble and terrazzo work, metal lath, steam heat, celotex demolition, cast stone, bronze work, allowance for lighting. Architects taking bids due July 29th.

Hotel, Atlantic City, N. J. Architects, Lockwood-Greene Co., 1 Pershing Square, New York. Owners, Seaside Hotel, E. P. Cook's Sons, Atlantic City, N. J. Brick, steel, 12 stories and basement, 122x53 feet, tile and composition roof, cement floors, elevators, steam heat, electric light, metal lath, tile, marble and terrazzo work, rolled steel sash, fire doors, bond, iron stairs, ornamental iron work, cast stone, integral waterproofing. Architects taking bids due July 30th.

Residences (3), 1019-21-23 North Thirty-first street, Camden, N. J., $11,500. Architect, private plans. Owner, Fred N. Eichfeld, 3100 Highland avenue, Camden, N. J. Brick and block, 2 stories, 16x41 feet 8 inches, slag roof, hot water heat, electric light, pine floors. Permit issued.

High School (add.), Wildwood, N. J. Architects, V. B. Smith, Atlantic City, and L. H. Boyer, Wildwood, N. J. Owners, Board of Education, William Todd, secretary, Wildwood, N. J. Low bidder: J. M. Yardley, 1700 Walnut street, Philadelphia, $180,981; R. S. Herzog, 10 South Eighteenth street, Philadelphia, $184,000.

Administration Building, Linden street, Fifth and Sixth streets, Camden, N. J. Architect, private plan. Owners, Delaware River Bridge Joint Commission, Widener Building, Philadelphia. Low bidders: D. Lutz & Co., Tweney-third and Chestnut streets, Philadelphia, $132,800; J. Joseph McHugh, 1617 Race street, Philadelphia, $144,800; plumbing, Mazzola & Marano, 739 South Seventh street, Philadelphia, $5,848; heating, Mazzola & Larano, 739 South Seventh street, Philadelphia, $6,200; electric, Strange Elec. Co., 214 South Seventh street, Philadelphia, $7,200.

Curbing, Gutters, Sidewalks, etc., Barrington, N. J. Engineer, J. J. Albertson, Barrington, N. J. Owners, Borough of Barrington, Harry Stone, Barrington, N. J. Work to be completed in 120 days. Certified check 3 per cent. to the order of Frank Adams, Borough Clerk. Owners taking bids due July 26th, 8 P. M. (Daylight Saving Time).

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. RRoute 4, Section 34-A, Cliffwood-Keyport Cutoff, Monmouth County. Excavation, channel excavation, borrow, double line reinforced concrete pavement, gravel surface, cinder base course. Certified check, 10 per cent. Dposit, $10.00. Owners taking bids due August 2nd at 11 A. M. (Standard Time).

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Route 20, Section 6, (2) bridges between Franklinville and Malaga in Gloucester County as follows: Bridge at M. P. 15.4 over Little Ease Branch. Bridge at M. P. 13.8 over Scotland Run. Reinforced concrete, steel, excavation, wooden piling. Spars 18 feet and 20 feet. Deposit, $10.00. Certified check, 10 per cene. Owners taking bids due August 2nd at 11 A. M. (Standard Time).

New Jersey Contracts Awarded

Residence, Trenton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, Edward B. Parsons, American Mechanics' Bank Building, Trenton, N. J. Brick, timber, stucco, 2½ stories, 30x65 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Fred Parker, 327 Calhoun street, Trenton, N. J.

Residence, Princeton, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, Dr. J. Vanneman, Princeton, N. J. Frame, 2½ stories, 30x76 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to S. H. Stillwell, Princeton, N. J.

Bank, Pennington, N. J., $45,979. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, First National Bank of Pennington, care of architect. Brick, cut stone, steel, 1½ stories, 36x63 feet, built-up roof, maple floors, metal window guards, ornamental plaster, bronze work, metal lath, tile and marble (heating, plumbing, electrical and vault reserved). Contract awarded to Harrison & Fisher, 242 Cuyler avenue, Trenton, N. J.

Residences (2), Garage (1), 929-31 Morton street, Camden, N. J., $11,000. Architect, Harold A. Allen, 516 Stevens street, Camden, N. J. Owner, Stephen Dudek, Camden, N. J. Brick, 2 stories, 14 feet 4 inches x 42 feet,

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garage, 1 story ,10x18 feet, slag roof, hot water heat, electric light. Contract awarded to Anthony Kincher, 1527 Norris street, Camden, N. J.

Garages (11), rear of 413 North Second street, Camden, N. J., $3,300. Architect, private plans. Owner, Austin O. Frome, 413 North Second street, Camden, N. J. Block, 1 story, 9x18 feet, slag roof, cement floors, electric work. Contract awarded to Harry Brown, 514 Laurence street, Camden, N. J.

Parochial School, Fifth and Vine streets, Camden, N. J. Architect, George I. Lovatt, 223 South Sydenham street, Philadelphia. Owners, Holy Name Roman Catholic Church, Rev. J. Whelan, Camden, N. J. Stone, cut stone, reinforced concrete, brick, steel, 3 stories and basement, 122x68 feet (plumbing, heating and electric reserved), variegated slate roof, cement, maple and pine floors, metal window guards, metal lath, marble and terrazzo work, hollow metal doors, iron stairs, ornamental iron work, Aquabar waterproofing, area gratings, concrete blocks, granite, bluestone, cast stone, sansli tread material. Contract awarded George W. Shaner & Son, Palmyra, N. J.

School No. 1 (add.), Maple Shade, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, School Board of Chester Township, W .W. Robertson, Maple Shade, N. J. Brick, concrete, cut stone, steel, 2 stories and basement, 2 wings, 35x60 feet, Barrett roof, cement and mastic floors, metal lath, bond, ornamental iron, safety treads, terrazzo work, metal lath. Contract awarded to George W. Shaner & Son, Palmyra, N. J., $48,217; plumbing, Harry Knecht, Collingswood, N. J., $2,930; heating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $13,749; electric, Franks & Sweeney, 1258 Haddon avenue, Camden, N. J., $2,546.

School No. 3, Maple Shade, N. J., $57,081. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, School Board of Chester Township, W. W. Robertson, Maple Shade, N. J. Brick, steel, concrete, cut stone, 2 stories and basement, 72x59 feet, Barrett roof, cement and mastic floors, metal lath, terrazzo work, bond, ornamental iron, safety treads. Coneract awarded to George W. Shaner & Son, Palmyra, N. J.; plumbing, Harry Knecht, Collingswood, N. J., $3,045; heating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $10,244; electric, Franks & Sweeney, 1258 Haddon avenue, Camden, N. J., $2,805.

Road Work, New Jersey. Owners, State Highway Commission,A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J.

Reconstruction of (5) bridges on Route 7, Sections 6 and 7. Contract awarded Jemison, Mealy & Felice, Trenton, N. J., $36,928.90.

Route 1, widening Rahway-Metuchen, Middlesex County. Contract awarded to Little & Pfeiffer, Perth Amboy, $179,028.05.

Route 14, Section 14, May's Landing-Egg Harbor, Atlantic County. Contract awarded Inter-State Eng. & Const. Co., 918 Catharine street, Philadelphia, Pa., $289,325.98.

Bridge, Burlington and Camden Counties, Route 2, over Pensauken Creek, at M. P. 3.6. Contract awarded to Mazzola & Marano, 739 South Seventh street, Philadelphia, $89,832.

Route 8, Section 8, Sussex County, Sussex-Hamburg. Contract awarded to Salmon Brothers, Netcong, N. J., $304,867.

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Miscellaneous Construction News

Switch House, Wilmington, Del., $15,000. Architect, private plans. Owners, American Power Co., 834 Market street, Wilmington, Del. Brick, concrete, 2 stories, 37x88 feet, slag roof, concrete floors, steam heat, electric light. Owners will build.

Cold Storage Warehouse, Wilmington, Del. Engineers, Ophuls & Hill, Inc., 112-14 West Forty-second street, New York City. Owners, Diamond Ice & Coal Co., Wilmington, Del. Brick, concrete, steel, 3 stories and basement, 68x96 feet, Barrett Specification roof, cement floors, plumbing, waterproofing, metal lath, rolled steel sash and skylights, bond, kalamein doors, ornamental iron work, bluestone. Architect, Brutus Gundlach, 110 East Forty-second street, New York, taking bids due July 22nd.

Miscellaneous Contracts Awarded

Dairy Building (alts.), Wilmington, Del. Architect, Walter H. Timms, Perry Building, Philadelphia. Owners, Fraim's Dairies, Wilmington, Del. General alterations. Contract awarded Haddock & Co., Wilmington, Del.

(Continued from page 456)

ventilating methods for the large garage, and will ultimately bring about a public consciousness for further applications to the private garage on the back lot.

The adaptation of improved ventilating systems to the public garage, when backed by the present concensus against carbon monoxide, offers not only increased business possibilities to the sheet metal trade, but it places the representatives of this trade in a highly commendatory light as assisting in eleminating the health hazards in his community.

EMPLOYMENT AT HIGH SUMMER PEAK: INDUSTRY SEES NO COMING SLUMP

Survey Made By the National Association of Manufacturers in All Parts of the Country Shows Unusually Healthy Condition for the End of June

"The industry of the nation is running on an astounding curve of eighty-four per cent of its maximum employment capacity and unemployment is practically nil," declared John E. Edgerton, president of the National Association of Manufacturers, in announcing the result of a nation-wide immediate survey of manufacturing plants in thirty basic industries. "This is an unusually healthy summer status; there can be no slump or panic," he added.

The Association sent out questionnaires to more than 3,000 members of its organization in pivotal sections for an instantaneous reflex of the business situation. Replies were received from 2,005 companies in thirty basic industries, and these reported that the number of employes required in their plants to maintain maximum capacity was 1,675,180, an average of 835 per company; and that they now have under employment 1,407,708, or an average of 702 person per plant.

"When the industries of the nation are running eighty-four per cent of their maximum employment capacity at the end of June, there certainly seems to be no ground for pessimism," continued Mr. Edgerton. "We are now at the time of the year when there is supposed to be a slump in production, a slump in employment, and a slump in wages. But our survey shows not a single one of these relaxing phases of industry.

"We hear reports from various sections that sales have diminished somewhat and that the values of the sales have dropped; but the fact that our production is keeping up almost to a maximum winter load, would indicate that the sales situation is one of postponement rather than permanent decline. Diminished sales is the rule in the summer and we do not see anything to indicate that the present situation is anything more than the normal dropping of interest of the consuming public and pressure of the sales forces.

"Indeed, our survey refutes the statements of the pessimists who all through the year have been predicting the panic that has not come; and unless it comes within the next fortnight, certainly will not be on us this year, at any rate. I believe industry in particular and the country as a whole have every reason to rejoice in this healthy situation of employment."

The survey was general, and covered all the following basic industries: automobiles, agricultural implements and supplies, automobile accessories, building materials and supplies, cement and clay industries, chemicals and drugs, clothing, electric, food and food products, furniture, glass, crockery, and porcelain, iron, steel, jewelry, leather, lumber, machinery, metals, paints, oils, paper and pulp, plumbers and steam fitters supplies, rubber, stationery, printing and books, textiles, tools, hardware, toys and novelties and the miscellaneous groups.

TILE
MARBLE
MOSAIC
CERAMICS

Camden Tile Co.

1484 Bradley Avenue
CAMDEN, N. J.
BELL PHONE
CAMDEN 3827 W

FORECAST STRENGTH OF CONCRETE

"How does concrete harden?" is in itself a simple question. But most people in answering this query would declare that concrete hardens through drying. Likewise when the question is asked as to how paint forms a protective coating the answer will nearly always be that paint hardens as it drys.

However, both paint and concrete becomes of material value, not through drying, but through chemical actions which take place within the paint or the concrete itself.

This fallacy in regard to the setting or hardening of concrete has led many to believe that the amount of mixing water used in making concrete is unimportant. In reality the amount of mixing water controls the strength of the concrete, in fact, so much so that scientists have recently worked out specifications whereby the strength of the material may be predetermined simply by regulating the amount of water as compared to the quantity of cement.

Too Much Water Weakens Concrete

Consequenty when water is haphazardly poured into the concrete mix along with the portland cement, and fine and coarse aggregate, good concrete will be largely a matter of chance. Imagine a cook carelessly dumping dippersful of water into his bread batch! Yet this is comparable to the way some people make concrete.

The pre-determination of concrete strengths through the use of varying amounts of water is known as water-ratio method. Professor Duff A. Abrams of the Portland Cement Association Research Laboratory supervised hundreds of thousands of tests before final specifications were issued. These of course require that the aggregate be sound and durable and that the mix be plastic and workable. Otherwise the strength of the concrete is determined by the proportion of mixing water to cement.

Water Ratio Coming Into Use

Among others, these noteworthy structures were built with water-ratio method: the Big Four Railway bridge near Sidney, Ohio; the University of Pittsburgh stadium; and the anchorages of the Camden-Philadelphia bridge. The Portland Cement Association on May 1 this year moved into its own home in Chicago, a structure built in accordance with similar specifications.

Concrete investigators have shown that under the water-ratio plan, uniform strength is assured, regardless of changes of workability or in the sizes of the aggregate. In other words the strength of the concrete is definitely known and a uniform concrete strength throughout a single structure may be obtained.

For ordinary work, the proper amount of water to use in making concrete is the smallest quantity which will give a mix of good workability. Builders in general should use as "dry" a mix as practicable.

Mixing Time Important

Another important point in the making of concrete is the thorough mixing of the materials. Concrete should be allowed to remain in the mixer for at east a minute. Most state highway commissions require at least a minute and a half for mixing. The speed of mixing is not so important as the time of mixing, for the materials must be thoroughly blended to form a good concrete.

Dusty or dirty sand or gravel or crushed stone aggregates will not make a strong concrete. The sand and pebbles must often be washed as well as screened to get rid of clay and organic material. Organic impurities are especially harmful, as they rob the cement of much of its strength.

Although concrete should be mixed and placed in the forms as dry as possible, it requires frequent moistening to cure it properly. In highway building, for instance, a new concrete road is flooded with water for 10 to 14 days, or is kept moist by a covering of damp earth or straw.

Yet, after all, good concrete making is as easy, and surely as desirable, as good bread making.

A GROWING DANGER TO THE BUILDING INDUSTRY

By O. W. ROSENTHAL, *President, O. W. Rosenthal-Cornell Co., Builders, Chicago*

Building material dealers and contractors alike generally oppose government in business because it threatens their own business.

In addition they have another objection which is still more fundamental. They object to their government, their America, gradually being forced into a state of communism. They do not believe the business of building or supplying building materials a proper function of government. They are convinced that the growing tendency of the government to enter the field of private business is a step on the way to communism, which, if carried out to its logical conclusion, would finally destroy *all* private business.

Threatens Dealer's Business

The attempt on the part of bureaucrats, to discredit business, to create the impression that government employes can produce or distribute more efficiently and economically than those of proved ability and judgment, is absurd, and yet as absurd as it may seem to those who really know the truth, it is fast becoming a menace to the nation and to private business.

Those charged with the responsibility for these bureaus and departments can point to no such record of progress as achieved by industry in private enterprise, where the conservation of capital and the producing of profits are primal considerations. They have not upon their own responsibility and initiative met the competition of those who have built up great industrial and commercial enterprises thru unusual ability. They have nothing at stake.

There are few cases in which one of these government employes has invented or initiated anything to more efficiently or more economically produce or distribute. Their contribution to the industrial world is almost nil, and yet by the use of inventions and methods devised by those who have their entire fortunes at stake—those who are constantly alert to every possible economy and added efficiency that they may properly, efficiently and economically serve the public—these bureaucrats and others would discredit private business by giving out the thought that they can produce more economically and efficiently and that business is not playing fair.

Public Deserves Bids

The public is entitled to competitive bids on a fair basis on all the government's requirements, whether it be materials, manufactured articles of construction, whether it be ships, lumber or envelopes. Private business has the same right in fair and open competition to serve the government as it has to serve private interests, and it can do this more efficiently and more economically than the government.

President Points to Dangers

If these governmental departments will revise their system on costs and accounting, the result of their efforts to compete would be startling by comparison. These bureaus could never meet the competition of private business if their charges were properly made.

I do not believe the public realizes the extent to which those who are entrusted with its affairs have plunged them into this communistic program; nor do I believe that the present administration is at all sympathetic to such a program. I quote President Coolidge, before the New York State Chamber of Commerce: "When government enters the field of business with its great resources, it has a tendency to extravagance and inefficiency, but having the power to crush all competitors, likewise closes the door of opportunity and results in monopoly." And again:

"I favor the American system of individual enterprise. When the government really starts into a line of business, that door of opportunity is closed to the people. It has always been an *American* ideal that the door of opportunity should remain open."—*Universal Dealer.*

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
hitectural Cast Cut Stone Co.....Westmont, N. J.

ARCHITECTURAL IRON WORK
ıker City Art Metal Works,
2445 N. Second St., Phila.

AREA GRADINGS.
owhead Iron Works of Pa., Inc.,
65th and Chester Ave., Phila.
ng Iron Works.....1015 Chestnut St., Phila.

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lpath & Potter Co.,
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ber, F., Co. .....125 S. 12th St., Phila.
l, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
e Print Shop.....1520 Sansom St., Phila.
bins, Chas. H., Co.....1729 Sansom St., Phila.
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ezey, John R. Glenwood Ave. w. of 22nd St., Phila.

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, Janeway, & Co..Real Estate Trust Bldg., Phila.
M. & C. M. Siner..Church and Tacony Sts., Phila.
elsior Brick & Steel Sales Co.,
Bankers' Trust Bldg., Phila.

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cham, O. W. .....121 N. 18th St., Phila.

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chell Bros. .....2125 Race St., Phila.
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eph Rotornado.....4740 Milnor St., Phila.

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vice Supply Corporation,
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Van Sciver Corporation,
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ıt Jersey Sand & Supply Co.,
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key Mfg. Co. ..Columbia and Howard St., Phila.

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hitectural Cast Cut Stone Co. ...Westmont, N. J.
eland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
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ıt Jersey Sand & Supply Co.,
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sch, Wm. F. .....Narberth, Pa.
siah, Frederick.Juniper and Cypress Sts., Phila.

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ezey, John R. Glenwood Ave. w. of 22nd St., Phila.

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rce Fireproof Co. .....1911 N. 2nd St., Phila.

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udsburg Septic Tank Co..328 Chestnut St., Phila

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vice Supply Corporation, 20th and Venango Sts.

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phy Door Bed Co.....512 Bulletin Bldg., Phila.

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tary Sewage Disposal Corp..40 S. 52nd St., Phila.

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it, Frank, Ornamental Iron Works,
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s, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
bord, Wolf .....4437-43 Ludlow St., Phila.

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tgage Extension Corp.,.1011 Chestnut St., Phila.

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rce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES.
. Lingo & Son .....Camden, N. J.

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l-Hydro Waterproofing Co., 24th and Parkway.
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ilton Rubber Mfg. Co. ..2313 Walnut St., Phila.
y Battersby & Co. .....810 Noble St., Phila.

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Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation, 20th and Venango Sts.

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Benjamin Foster Company,
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Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.

ROOFING MATERIALS.
Service Supply Corporation,
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Warren-Ehret Co. .....Luzerne and "E" Sts., Phila.

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Chapman Slate Co .....Bethlehem, Pa.

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SEWAGE EJECTORS.
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

SEWERAGE WORK.
Harsch, Wm. F. .....Narberth, Pa.

SEWER PIPE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.

SHEETROCK (Wall Board).
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

SOUNDINGS.
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

STEAM SPECIALTIES.
Edwin Elliot Co. .....560 N. 16th St., Phila.

STEEL SASHES
Lupton Sons Co., David
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STONE.
St. Martin's Building Stone,
Germantown Ave. & Rumford Rd., Chestnut Hill, Pa.

"SURETY BONDS"
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TERRA COTTA (Architectural).
Conkling-Armstrong Terra Cotta Co.
1600 Arch St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

TERRA COTTA SEWER PIPE.
Clausen, Wm. H. ....27th and Diamond Sts., Phila.

TILE AND TERRAZZO WORK.
Acorn Tile Co.....Clementon, N. J.
Belfi Bros. Co. .....1923 Market St.,Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. ....433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.
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Wm. G. Wilson.....2313 Walnut St., Phila.

TRANSITS.
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

WALL BOARD, COMPO BOARD
Ketcham, Howard .....3rd and Girard Ave., Phila.

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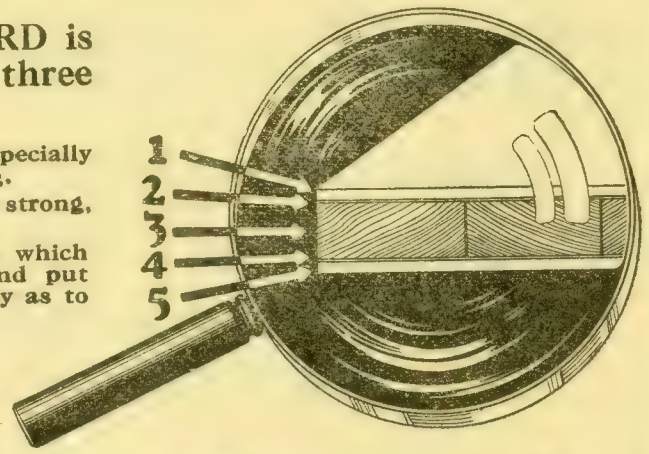
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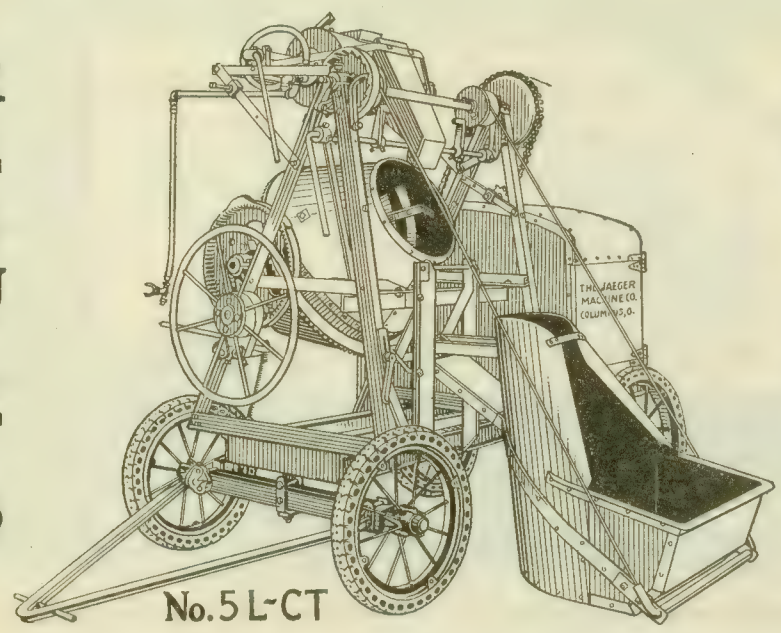
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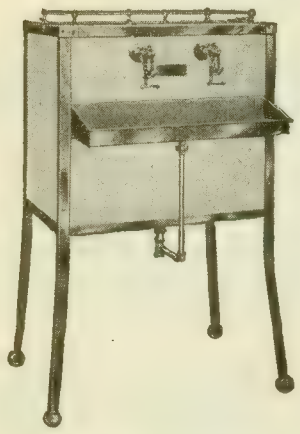
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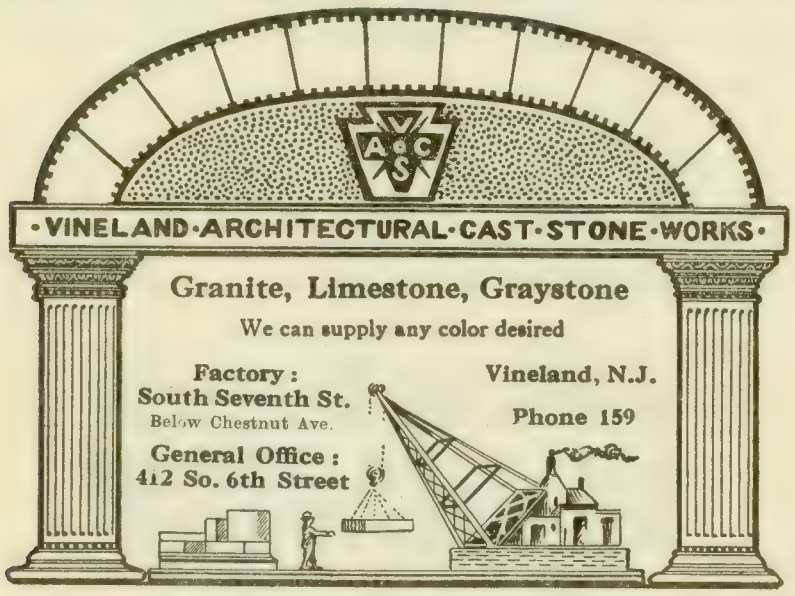
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 30

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July 28, 1926

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As The Editor Sees It

"STOPPING FIRES DUE TO CHIMNEYS AND FLUES"

The fact that the second largest cause of preventable fires in "defective chimneys and flues" is of especial importance to every home owner and occupant. Because these are classed as preventable causes indicates, as it quite true, that new chimneys and flues should not be defective and can be properly built.

There are three principal ways by which chimney fires are caused. The first is due to faulty or inadequate construction without flue linings. The second to providing for the connection of more than one apparatus to a flue. The third is due to the flue being too small for its intended use.

The first condition is unfortunately far too common. the second accounts in part for the numerous fires which always accompany a severe cold spell, and the third was much in evidence in certain localities during the last coal strike when flues intended for burning anthracite were used in connection with other fuels.

D. Knickerbacker Boyd, Architect, in the current Quarterly of the National Fire Protection Assn. makes some pertinent comments on prevailing methods of chimney construction and offers suggestions for remedying conditions. In investigations made in over one hundred cities, he says, "the conditions were very illuminating and quite astounding as evidencing the lack of uniformity in chimney requirements of the different places. Twenty cities allowed only one connection while 44 cities allowed any number at all to each flue. Others allowed two, three, four, seven, one per floor, one per family and so on. The National Board of Fire Underwriters and other authorities recommend only one connection to each flue.

On the other hand, 75 cities required flue linings as against 15 which did not require this recognized protection, although fire clay flue linings as recommended by the National Board are only definitely stipulated in 23 of these codes. Gas appliances are required to be vented in 50 out of 91 codes, but only 28 require that a masonry flue be used. This investigation indicated that building codes are not as strict and the provisions are not as careful as they should be."

However, as Mr. Boyd states, "even though the provisions are lax, the entire responsibility cannot be placed on the building codes, as there are other factors which have an influence on actual construction. It is impossible for building inspection departments, as they are usually constituted, to supervise constantly all details of construction. Far too many houses are built without architects or supervision of an architect's office. Very often the workmen are not experienced in chimney construction and so, even when properly designed, specified and "coded" the completed chimney may be defective."

The contributory causes of fires due to chimney as he points out, "can therefore be attributed first to lack of proper building code requirements and secondly to actual construction methods. By specifying proper construction architects can help, by insisting on good workmanship the contractor can do his share, and by giving careful attention to actual construction the bricklayer or mason can accomplish his part in securing correct results." After giving these matters careful consideration, Mr. Boyd comes to the conclusion that the way to ensure sound chimney construction is through somewhat drastic methods by insisting beforehand that all chimneys shall be tested on

(Continued on page 484)

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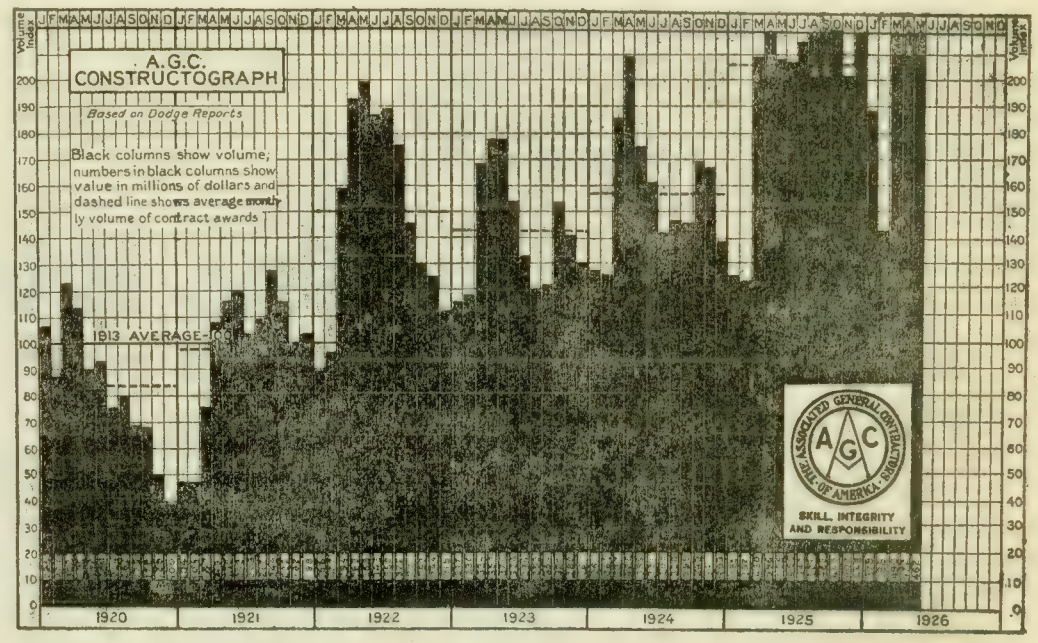
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Recent developments in the construction industry virtually assures fulfillment of forecasts that the amount of building operations to be handled this year will be as great or greater than the record-breaking volume established in 1925.

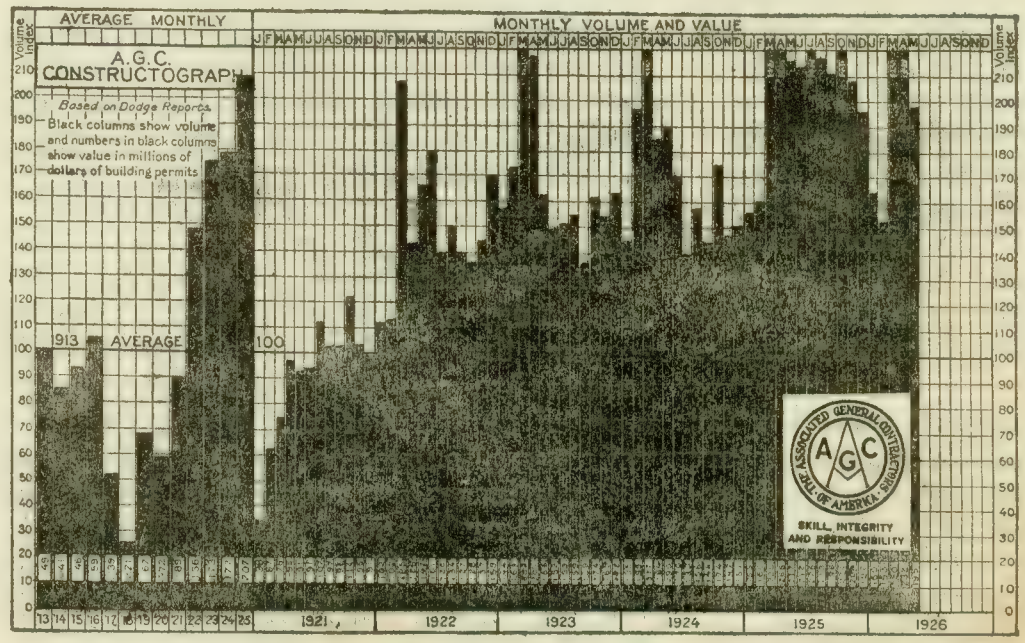
The total volume of contracts awarded during the first five months of 1926 exceeded by fourteen per cent the figure for the corresponding period of 1925, according to statistics compiled by the Associated General Contractors of America. The total number of building permits issued during the first five months of this year is only slightly below the mark set in the same months of 1925.

While the volume of contracts awarded and the number of permits issued during May both were somewhat lower than the levels reached in April, the actual amount of construction under way in June set a new record for that month. This June figure was only slightly below the highest mark on record for any month and promises to be exceeded in July.

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CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence (alts.) and Garage, 1715 Pine street, Philadelphia. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, name withheld. Garage, brick, 1 story, 19x18 feet, slag roof, cement floors. Residence, changes in heating, plumbing and electric, tile and linoleum floors, tile and marble work, kitchen equipment, partitions, painting, plastering. Plans in progress.

Retail Store, Sixty-fourth and Market streets, Philadelphia. Architect, George C. Nimmons & Co., 122 South Michigan avenue, Chicago, Ill. Owners, Sears-Roebuck Co., Chicago and Philadelphia. Brick, limestone, reinforced concrete steel, 2 stories and basement, 100,000 square feet of space. Preliminary plans in progress.

Garage, 321-29 North Fourth street, rear to Orianna street, Philadelphia. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, name withheld. Reinforced concrete, steel, 4 stories and basement, 62x178 feet, slag roof, concrete floors and ramps, steam heat, oil burning, electric light, rolled steel sash, hollow metal skylights. Plans in progress.

Theatre, Fifty-fourth and Arlington avenue, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owner, Charles Segall, 1237 North Fifty-second street, Philadelphia. Brick, steel, concrete, 2 stories, 87x228 feet, cement floors, steam heat, electric light. Architects drawing new plans.

Church (int. alts.), Fifty-sixth and Cedar avenue, Philadelphia. Architects, H. D. Dagit & Son, 1329 Race street, Philadelphia. Owners, Roman Catholic Church of Transfiguration, Rev. D. I. McGettigan, on premises. Limestone walls, marble base, terrazzo floors, painting, etc. Plans in progress. Architects will be ready for bids September 1st.

Service Station and Garage, Northeast Corner Sixteenth and Wood streets, Philadelphia. Architects, H. D. Dagit & Son, 1329 Race street, Philadelphia. Owners, I. Goldstein & Son, care of H. Edward Lutz, 240 North Seventeenth street, Philadelphia. Brick, concrete, steel, 2 stories, 28x48 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, metal bulks, plate glass. Plans completed. Owners ready for bids.

Apartment House, 5427 Wayne avenue, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, J. Presper Eckert, Commercial Trust Building, Philadelphia. Brick, concrete, steel, 3 stories and basement, 272x84 feet (tile, heating and marble work reserved), Barrett Specification roof, cement, oak and pine floors, maple floors, plumbing, architectural terra cotta, electric light, metal lath, hollow metal sash, kalamein doors, bond, ornamental iron work, area gratings. Owner building and is taking sub-bids.

Apartment House, Northwest Corner Tenth and Clinton, Philadelphia. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, L. Lande, 701 East Girard avenue, Philadelphia. Brick, steel, limestone, 12 stories, 40x120 feet, steam heat, electric light, tile and marble work, elevators. Plans completed. Owner taking bids.

Church, Jenkintown, Pa. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Grace Church, Jenkintown, Pa. Plans completed. Architect will be ready for bids in one week.

Bank Building, Southwest Corner Broad and Nedro avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Fern Rock Trust Co., S. B. Davis, Broad and Nedro avenue, Philadelphia. Brick, stone. Note change in architect, who will be ready for bids in one week.

Garages and (2) Stores, 658 West Johnson street, Philadelphia. Architects, The Penwood Co., 131 North Fifteenth street, Philadelphia. Owner, Nathan Benedict, on premises. Brick, 2 stories, 77x170 feet, slag roof, cement and pine and maple floors, elevators (2), steam heat, electric light, rolled steel sash, metal skylights. Owner taking sub-bids.

Museum (add.), Thirty-fourth and Spruce streets, Philadelphia. Architects, Stewardson & Page, 315 South Fifteenth street; Day & Klauder, Franklin Bank Building, and Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Brick, stone, steel, tile roof. Plans about completed. Stewardson & Page will take bids in about 10 days.

Bank Building, Germantown and Evergreen street, Germantown, Philadelphia. Architect, Arthur Brockie, 154 South Fifteenth street, Philadelphia. Owners, Germantown Trust Co., Germantown and Chelten avenues, Philadelphia. Work contemplated in 1927. Plans not yet started.

Store and Apartments (5), Southwest Corner Sixty-ninth and Old York road, Philadelphia. Architect, Louis J. Tunis, 1600 Arch street, Philadelphia. Owner, Charles Gross, Land Title Building, Philadelphia. Brick, steel, limestone, 3 stories, 16x66 feet each, hot water heat, electric light, slag roof, oak and pine floors, concrete, cement work, plate glass. Owner taking bids due as soon as possible.

Store Building, 1428-32 Point Breeze avenue, Philadelphia. Architect, Harold Holmes, Detroit, Mich. Owners, S. S. Kresge & Co., Detroit, Mich. Brick, granite, steel, 2 stories and basement, 101x50 feet, slag roof, cement and maple floors, plumbing, waterproofing, steam heat, electric light, metal lath, tile, marble and terrazzo work, bond, metal bulks, bronze work, sidewalk lifts. Architect taking bids due August 2nd.

Post Office and Court House (alts. and add.), Philadelphia. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Owners taking bids due August 11th, 3 P. M. (Daylight Saving Time). Plans can be obtained from Custodian on site.

Residence, Garage and Stores, Northwest Corner Castor and Chandler streets, Philadelphia. Architects, Watts & Coscia, 1504 Locust street, Philadelphia. Owner, Luigi Boochitthio, 134 West Cumberland street, Philadelphia. Brick, 2 stories, 16x56 feet, 17x26 feet, 18x20 feet, slag roof, cement and hardwood floors, hot water heat and electric light, tile work. Plans in progress.

Philadelphia General Hospital, Thirty-fourth and Pine streets, Philadelphia. Architect, P. H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Health, W. Krusen, 584 City Hall. Owners taking bids due August 9th, 11 A. M. (Standard Time). Construction and erecting administration building, plumbing, heating and electric, iron fence. Certified check 5 per cent. of bid.

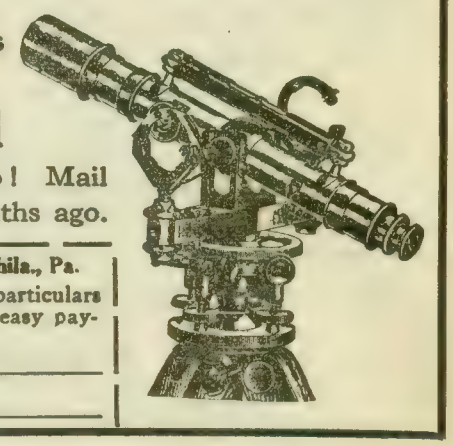
Garage, location withheld. Architects, Watts & Cocia, 1504 Locust street, Philadelphia. Owner, name withheld. Brick, structural steel, 1 story, 40x140 feet, slag roof, cement floors, hot water heat, oil burning, electric light. Plans in progress.

School and Dormitory, Germantown and Summit avenues, Philadelphia. Architect, Peter Getz, Victory Building, Philadelphia. Owners, Sisters of St. Joseph, Superior General Mother M. James, Mt. Airy, Pa. Stone, brick, reinforced concrete, steel, 2 stories and basement, 198x56 feet (plumbing and vapor heat reserved), slate roof, tile and terrazzo and composition floors, ash hoists, blackboards, cut stone, metal partitions, rolled steel sash, kalamein doors, metal lockers, glass wainscoting. J. McShain, 1713 Sansom street, Philadelphia, is taking sub-bids due July 30th.

Bank and Office Building, York road and Broad street, Philadelphia. Architect, Ralph Benckert, Thirteenth and Chestnut streets, Philadelphia. Owner, Oak Lane Trust Co., Leon Lewis, on premises. Brick, cut stone, limestone, steel, 2 stories and basement, 35x40 feet, slag roof, cement floors, metal lath, tile and terrazzo work, fire doors, bond, ornamen-

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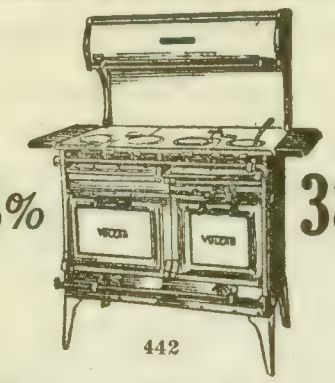
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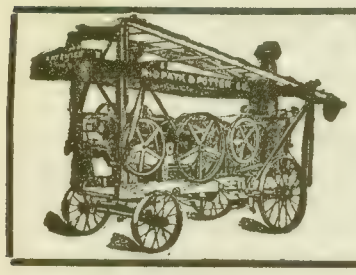


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tal iron work, metal toilet partitions. Architect taking bids due August 4th.

Swimming Pool, Ridge avenue and Ferry road, East Falls, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Bureau of Recreation, 595 City Hall, Philadelphia. Low bidder: John F. Cody, 3301 Ashburner street, Philadelphia, $29,935; J. B. Kelly, 2315 Walnut street, Philadelphia, $36,446; plumbing, Joseph Hart, 1945 North Croskey street, Philadelphia, $3,045; electric, H. S. Mitchell, 1337 McFerran street, Philadelphia, $1,185.

Residence, 6669 Wayne avenue, Philadelphia, $19,000. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, Warren P. Gotwals, Oaks, Pa. Stone, 3 stories, 29x52 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

Garage, 3508 Baring street (rear), Philadelphia, $25,000. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, Robert Smith, 222 Dickinson street, Philadelphia. Brick, 2 stories, 80x68 feet, slag roof, cement floors, electric work. Permit issued.

Residences (11), (9) 561-77 Marwood road, (1) 600 East Olney avenue, and (1) 558 Clarkson street, Philadelphia, $56,500. Owner, Andrew Pinkerton, Twenty-eighth and Arizona streets, Philadelphia. Brick, (10) 15x28 feee, 11x11 feet, (1) 37 feet 8 inches x irregular, hot water heat, electric light. Permit issued.

Residence, Northeast Corner Moreland avenue and Winston road, $9,000. Architect, private plans. Owner, Frank F. O'Neill, 7811 Germantown avenue, Philadelphia. Stone, 3 stories, 25x35 feet, 21x20 feet, slate roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Tank, East side Richmond street, North of Norris street, Philadelphia, $9,000. Owners, William Cramp & Sons S. & E. Co., on premises. Permit issued.

Residences (2), North side Hartel street, West of Walker street, $4,500 each. Architect, private plans. Owner, E. M. Carlston, 3224 Higby street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Apartment House, Chestnut street, East of Sixty-third street, Philadelphia, $350,000. Architect, private plans. Owners, Cobb's Creek Const. Co., 825 Real Estate Trust Building, Philadelphia. Brick, 4 stories, 91x619 feet, slag roof, hardwood and pine floors, electric light, tile work. Permit issued.

Trestle, West bank Schuylkill River, Fifty-first to Fifty-third streets, $55,000. Owners, Van Sciver Corporation, Twenty-fourth and Parkway, Philadelphia. Permit issued.

Residences (4), 1067-69-75-77 Granite street, Philadelphia, $7,500 each. Architect, private plans. Owner, J. D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (5), Wistaria street, South of Murray street, $5,000 each. Architect, private plans. Owner, F. Dietrich, 1823 East Hilton street, Philadelphia. Frame, 2 stories, 24x26 feet, shingle roof, hot water heat, hardwood and pine floors, electric light. Permit issued.

Store (add. and alts.), 5219 Market street, Philadelphia, $9,000. Architect, private plans. Owner, Harry Mager, 5219 Market street, Philadelphia. Brick, fourth story add., 20x100 feet, general alterations. Permit issued.

Miscellaneous Paving, Philadelphia. Owners, Department of Public Works, Bureau of Highways, J. H. Neison, 216 City Hall. Owners taking bids due August 5th, 11 A. M. (Standard Time). Schedule A—Grading: Borbeck street, Frontenac to Lorretta; Hegerman, Foust to Vankirk; James, Princeton to Friendship; Oxford avenue, Cottman to St. Vincent; Shelmire, Dungan road to Whitaker street, etc. Schedule B—Asphalt paving: Emlen, Mt. Pleasant to Lincoln; Fairhill, Spencer to Godfrey; Lawrence, Wingohocking to Annsbury; Ormond, Hunting Park to Bristol; Sedgley, Kensington to Frankford, etc. Schedule C—Country road improving: Griffith, Castor road to Frontenac, etc. Schedule D—Repairs to bridges. Schedule W—Furnish asphaltic cement. Schedule E—Sand and limestone dust for asphalt paving mixtures. Schedule G—Furnishing crushed stone, binder slag and crushed pebbles. Certified check 5 per cent.

Sewer Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Low bidders received July 14th: Adams avenue, Wyoming to Orthodox street, J. Joseph McHugh, 1617 Race street, Philadelphia, $11,862.95. Aldine street, Frankford to Ditman street, Joseph Venti, 1812 South Fifteenth street, Philadelphia, $20,440.10. Algon avenue, Sanger to Cheltenham avenue, Langdon, H. H. Pizagno, 907 South Thirteenth street, Philadelphia, $13,481.30. Aramingo street, Westmoreland to Ontario, Emilio Pascuzzi, 601 Lincoln Building, $13,421.75. Castor avenue, Tyson to Cottman, J. Joseph McHugh, 1617 Race street, Philadelphia, $16,259.70. Ditman, Sanger, Vankirk, Foust, Torresdale, to Jackson, Aramingo, Anchor, Caner, Ditman to Aramingo, Joseph Moss, 1652 Wakeling street, Philadelphia, $20,829.39. Erdrick street, Howell to Banner street, J. Joseph McEugh, 1617 Race street,

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Philadelphia, $9,170.45. Foust, Torresdale to Tulip street, Joseph Moss, 1652 Wakeling street, Philadelphia, $5,619.70. Frankford avenue, Cottman to Napfle street, Garson & Garson, 5031 Brown street, Philadelphia, $16,-218.75. Georgian road, Ogontz avenue, Summit East, Allan J. Henderson, 825 East Washington Lane, $7,024.40. Glen Echo road, Emlen to Cherokee, Edward F. Bennis, 825 East Washington lane, $11,499; Godfrey avenue, Rising Sun to Colgate, A. DeSandro & Son, 3906 North Fifth street, Philadelphia, $22,-067; Henry avenue, Kingsley street to Markle, Henry to Houghton street, Peter & A. J. Ellis, Fourth below Wyoming avenue, $15,767.70. L street, Lycoming to Hunting Park avenue, Vatteri & Pontarelli, 523 Rising Sun avenue, $4,420.20. Laurence street, Spencer to Godfrey avenue, Peter &A. J. Ellis, Fourth below Wyoming avenue, $6,306. M street, Lycoming to Hunting Park, K to M street, A. De Sandro & Son, 3906 North Fifth street, Philadelphia, $20,127.50. Malvern avenue, Fifty-seventh to Fifty-eighth street, J. Joseph McHugh, 1617 Race street, Philadelphia, $6,249.30. Penn street, Vaux to Conrad street, Edward F. Bennis, 825 East Washington lane, $12,483; Roosevelt Boulevard, Devereaux to Comly street, Peter & A. J. Ellis, Fourth below Wyoming avenue, $17,096.55. State road, Princeton to Barton street, Amadio Corrado, 5920 Magnolia avenue, Philadelphia, $3,348. Stiles Street, Church street to Duncan street, Church street, Stiles to Tacony street, McCool Const. Co., 5033 Duffield street, Philadelphia, $9,330.60. Teesdale street, Frankford avenue to Ditman street, Alfonso Perna & Son, 752 South Tenth street, Philadelphia, $20,896.55. Torresdale avenue, Robbins avenue to Unruh street, J. Joseph McHugh, 1617 Race street, Philadelphia, $46,-312.90. Torresdale avenue, Longshore to Tyson street, Garson & Garson, 5031 Brown street, Philadelphia, $12,948.60. Tulip street, Sanger to Vankirk street, Perna Engr. & Const. Co., 739 South Eighth street, Philadelphia, $8,843.90. Walnut lane, Hollis to Rodney street, Edward F. Bennis, 825 East Washington Lane, $9,488.75.

Residence (alts.), 3230 Berks Street, Philadelphia, $5,000. Architect, private plans. Owner, S. Hopkins, 6201 Market street, Philadelphia. Brick, 2 sty. add., 17x13 feet, general alterations. Permit issued.

Residence (add. and alts.), 715 South Fifty-second street, Philadelphia, $5,000. Architect, private plans. Owner, S. Hopkins, 6201 Market Street, Philadelphia. Brick, 2 story addition, 17x13 feet, general alterations. Permit issued.

Residences (11), Krams and Pechin Streets, Philadelphia. Architect, Bunting & Shrigley, 603 Chestnut St., Philadelphia. Owner, Octavia Hill Association, 613 Lombard St., Philadelphia. Brick, 2½ stories, electric work, carpentry and millwork, hardwood and pine floors, tile work. Architect taking bids due as soon as possible.

Theatres, Stores and Apartment, Garrett Road, Fairfield and Bywood Avenues, Upper Darby, Pa. Archt., Hodgenst Hill, 1305 15th St., Phila., Pa. Owner, Wm. Friehofer, Twentieth and Indiana Ave., Philadelphia. Brick, concrete, steel, 300x221 feet, seating capacity 3,000. Apartments (50), Stores (20). Plans in progress.

Miscellaneous Work, Philadelphia. Owner, Department of Public Work, Bureau of Water, 216 City Hall. Furnish and deliver pig lead, copper, zinc ingots, furnish and erect switch boards wiring and electric equipment, Torresdale high service station. Screen and intake improvements at Queen Lane and Shawmont Pumping stations; Furnish and lay 24 inch, 22 inch, 16 inch pipe lines, electric pumps, auxiliary equipment, Torresdale Pumping Station, Supplementary construction Torresdale Pumping Station. Certified check 5% of bids. Owner taking bids due Aug. 3rd, 11 A. M. (S. T.)

Apartment House (add.), Northeast Corner Nineteenth and Walnut streets, Philadelphia, $3,000,000. Architect, Ralph Bencker, Thirteenth and Chestnut streets, Philadelphia. Owners, The Wellington, F. H. Frazier, Nineteenth and Walnut streets, Philadelphia. Brick, limestone, steel, 26 stories, 120x220 feet, slag roof, concrete and hardwood floors, elevators, steam heat, electric light, metal lath, tile and marble work. Architect taking bids due August 6th, 2 P. M.

Proposals

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., July 21, 1926. Sealed Proposals will be opened in this office at 3 P. M., August 11, 1926, for remodeling and enlarging of the United States Post Office and Court House, Philadelphia, Pa. Drawings and specifications may be obtained from the Custodian of the building or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

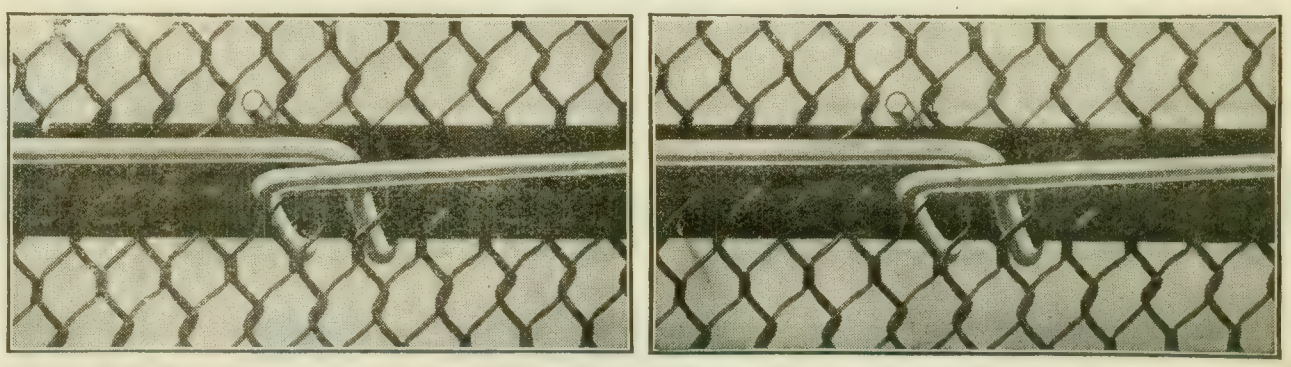
TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., July 26, 1926. Sealed Proposals will be opened in this Office at 3.00 P. M., August 12, 1926, for new Roof Covering at the United States Mint, Philadelphia, Pa. Drawings and specifications may be obtained from the Custodian of the building, or at this Office, in the discretion of the Supervising Architect. James A. Wetmore, Acting Supervising Architect.

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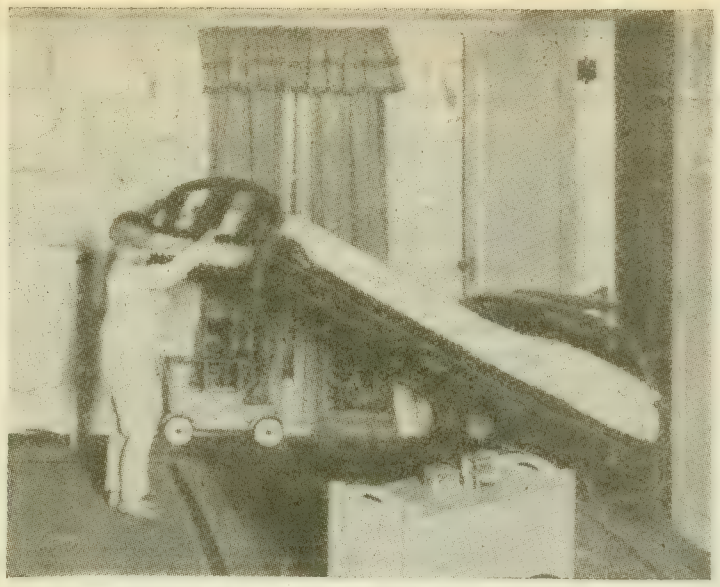
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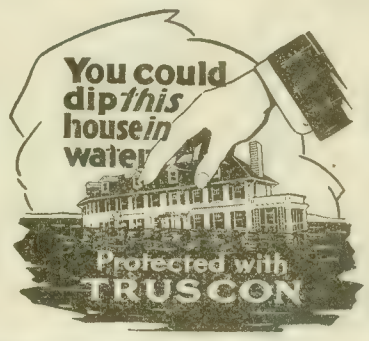
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Laundry and Boiler House, Chestnut Hill, Pa. Engineers, Day & Zimmerman, 1600 Walnut street, Philadelphia. Owners, Chestnut Hill Hospital, Miss Lefevre, Chestnut Hill, Pa. Stone, cut stone, steel, 2 stories, 43x77 feet, variegated slate roof, cement floors, plumbing, steam heat, electric light, rolled steel sash. Contract awarded W. R. Dougherty, 1610 Sansom street, Philadelphia.

Nurses' Home, 8815 Germantown avenue, Philadelphia. Architects, Willing, Sims & Talbutt, 10 South Eighteenth street, Philadelphia. Owners, Chestnut Hill Hospital, Miss Lefever, Chestnut Hill. Brick, stone, cut stone, reinforced concrete, 3 stories and basement, 150x39 feet, builtup roof, linoleum, cement and maple floors, metal lath, tile, marble and terrazzo work, hollow metal sash, rolled steel skylights, floor hardener, ornamental iron work, limestone, flagstone, ironite waterproofing. Contract awarded W. R. Dougherty, 1610 Sansom street, Philadelphia.

Building (alts.), 220 South Broad street, Philadelphia. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Art Club of Philadelphia, 220 South Broad street, Philadelphia. Terrazzo work, tile, marble work, plumbing, metal lath, plastering, painting and glazing, hollow tile, carpentry and mill work, slag roof, steel work, hardware, Celotex, heating, electric elevators. Contract awarded F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Boiler House, Roosevelt Boulevard and Asylum pike, Philadelphia. Engineer, Albert C. Wood, Stock Exchange Building, Philadelphia. Owners, Friends' Hospital, on premises. Brick, steel, 1 story and basement, 48x54 feet, slag roof, maple floors, rolled steel sash, ornamental iron work. Contract awarded Barclay White Co., 1713 Sansom street, Philadelphia.

Old School Building (alts.), New Toilet Rooms, Broad and Susquehanna avenue. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Our Lady of Mercy, Rt. Rev. Monsignor J. A. Whitaker, on premises. Contract awarded to Doyle & Co., 1519 Sansom streeet, Philadelphia.

Factory (add.), Fifth and Hamilton streets, Philadelphia. Architect, P. S. Tyre, 114 South Fifth street, Philadelphia. Owners, Crescent Ink & Color Co. of Pennsylvania, 460 North Fifth street, Philadelphia. Brick, reinforced concrete, steel, 1 story and basement, 40x20 feet, Barrett Specification roof, monolithic floors, painting and glazing, plumbing, metal lath, hollow metal sash, rolled steel skylights, fire doors, bond, floor hardener, ornamental iron work, area gratings. Contract awarded J. Sims Wilson, 1125 Brown street, Philadelphia.

Cold Storage Warehouse and Sales Building, Delaware and Jackson streets, Philadelphia. Architects, Office of Engineer of Buildings, Baltimore, Md. Owners, Baltimore & Ohio R. R. Co., Baltimore, Md. Brick, reinforced concrete, steel, 1 story, 919x100 feet, composition roof, cement floors, rolled steel sash and skylights, roof ventilators, metal lath, waterproofing, ornamental iron work, linoleum floors, metal toilet partitions (plumbing, heating, electric light, wood block floors, rolled steel doors, elevators, pile driving reserved). Contract awarded Hughes-Foulkrod Co., Commonwealth Building, Philadelphia.

Gym Building (alts.), Chestnut Hill, Pa. Architect, Arnold Moses, Camden, N. J. Owners, Springside School for Girls, Mrs. L. T. Chapman, on premises. General alterations. Contract awarded J. Sims Wilson, 1125 Brown street, Philadelphia.

Residence (alts. and add.), Cresheim road and Pelham road, Philadelphia. Owner, F. Heppe, on premises. Oak floors, plastering, carpentry and mill work, stone work, painting. Contract awarded Fred Elvidge & Son, 5522 Germantown avenue, Philadelphia.

Store (alts.), Northwest Corner Twenty-second and Oxford streets, Philadelphia. Architect, C. M. Wells, Rutledge, Pa. Owner, Davis Flancer, on premises. New front, 16x71 feet, Kawnear bulsk, mineral floors, hot water heat extension, electric light, plate glass, brass grills, tapestry brick. Contract awarded I. Alterman, 2731 Somerset street, Philadelphia.

Sunday School Building, Palmetto and Cottman streets, Burholme, Pa., $50,000. Architect, George C. Baum, 1511 Arch street, Philadelphia. Owners, Emmanuel Lutheran Church, on premises. Stone, 1 story and basement, 55x87 feet, slate roof, cement floors, painting and glazing, plumbing, steam heat, electric light, tile work, ornamental iron work, artificial cast stone. Contract awarded F. K. Wilkinson, 10 Ridley avenue, Aldan, Pa.

Office Building, Forty-sixth and Market streets, Philadelphia, $3,000,000. Architects, Cram & Ferguson, Boston, Mass. Owners, Provident Mutual Life Insurance Co., Fourth and Chestnut streets. Brick, stone, steel, 4 stories and basement, 340x60 feet, (2) wings 90x60 feet, steam heat, electric light, tile and marble work, slag roof, concrete floors, elevators, terra cotta, ornamental iron work. Contract awarded on cost plus basis to Turner Const. Co., 1700 Walnut street, Philadelphia.

Apartment Houses (2), North side Kingsessing avenue, West of Forty-seventh street, $50,000 each. Architect, private plans. Owners, Isdander & Leibowitz, 1112 Lincoln Building, Philadelphia. Brick, 4 stories, 19x55 feet, 51x21 feet, hardwood and pine floors, electric light, tile work. Contract awarded to A. Leibowitz, Lincoln Building, Philadelphia.

Residence, North side Greenfield road, East of Seventy-first street, $20,000. Architect, W. J. Corcoran, West Chester, Pa. Owner, W. H. Elfreth, Allentown, Pa. Hollow tile, 3 stories, 32x40 feet, 12x8 feet, hardwood and pine floors, hot air heat, electric light. Contract awarded to Flanigan & Flanigan, 1309 Locust street.

Reservoir, North side Gray's Ferry avenue, West of Thirty-fifth street, $15,935. Architect, private plans. Owners, E. I. DuPont-De Nemours Co., on premises. Contract awarded to H. Reiber, 3500 Gray's Ferry road.

Residence (alts.), 238 South Thirteenth street, Philadelphia, $10,000. Architect, private plans. Owner, George T. Sales, Liberty Bank Building, Philadelphia. General alterations. Contract awarded to Rush Brothers, 4682 Darrah street, Philadelphia.

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Loading Platform, North side Ontario street, West of C street, $18,000. Architect, private plans. Owners, Philadelphia Storage Battery Co., C and Ontario streets, Philadelphia. Contract awarded to Stewart Brothers Co., 2526 North Orkney street, Philadelphia.

Residence (add. and alts.), 3460 West School Lane, Philadelphia, $6,500. Architect, private plans. Owner, William Warden, Witherspoon Building, Philadelphia. Brick, 2 stories, 14x15 feet 6 inches, general alterations. Contract awarded to John A. Allen, 125 Herman street, Philadelphia.

Residence, North side Upland street, East of Sixty-seventh street, $6,500. Architect, private plans. Owner, Robert B. Campbell, 2211 South Sixty-seventh street, Philadelphia. Brick, 2 stories, 16 feet 8 inches x 40 feet, hardwood and pine floor, slag roof, electric light. Contract awarded to Gotshall & Ralstone, Seventh and Main streets, Darby, Pa.

Garage, 1201 Fillmore street, Philadelphia, $3,000. Architect, private plans. Owner, Robert Boggs, on premises. Brick, 1 story, 19x20 feet, slag roof, cement floors, electric work. Contract awarded to William F. Motz, 4644 Frankford avenue, Philadelphia.

Residence (alts.), 332 North Sixty-third street, Philadelphia, $2,675. Owner, Walter Burke, Southeast Corner Seventeenth and Norris streets, Philadelphia. General alterations. Contract awarded to George W. Leflin & Son, 659 North Sixty-third street, Philadelphia.

Office Building and Garage, Penn and Comly streets, Philadelphia, $225,000. **Office (alts.),** Ninth street below Dauphin street, Philadelphia, $15,000. Owners, Philadelphia Rapid Transit Co., Eighth and Dauphin streets, Philadelphia. Brick, garage, 1 story, 12x60 feet, office building, 2 stories, 92x42 feet, garage add., metal, second story, 12x60 feet. Contract awarded to H. E. Baton, Inc., 1713 Sansom street, Philadelphia.

Garage, Northwest Corner Belgrade and Clementine streets, Philadelphia, $25,000. Architect, private plans. Owner, J. Kosiek, care of builder. Brick, 2 stories, 50x31 feet, slag roof, cement floors, electric work. Contract awarded to D. Goldman, 1617 South Orkney street, Philadelphia.

School (add. and alts.), Southwest Corner Mascher and Diamond streets, $6,000. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, St. Boniface's Roman Catholic Church, on premises. Brick, 1 story add., 19x11 feet, general alterations. Contract awarded to Farrell-Roth Const. Co., 123 South Twenty-first street.

Residence (add. and alts.), Northwest Corner Thirty-ninth and Brown streets, $4,000. Architect, private plans. Owners, Cherin Oras-Israel, on premises. Brick, 3 stories add., 16x15 feet, general alterations. Contract awarded to H. Sharkowitz, 3933 Brown street, Philadelphia.

Club (alts.), 513 Green street, Philadelphia, $3,000. Architect, private plans. Owners, Twelfth Ward Republican Club, on premises. General alterations. Contract awarded to Thomas M. Kelly, 4411 Germantown avenue.

Residence (add.), 4701 Sansom street, Philadelphia, $2,000. Architect, private plans. Owner, Anna E. Wahl, on premises. Brick, 2 stories, 15x10 feet, slag roof, pine floors. Contract awarded to Harry R. Jacobs, 1309 Rising Sun avenue.

Stores (alts.), Southwest Corner Walnut and Camac streets, Philadelphia, $8,000. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owners, St. James Hotel Corporation, Bankers' Trust Building, Philadelphia. General alterations. Contract awarded to S. H. Levin, Elrae Building, Philadelphia.

Garage, 111 Dawson street, Philadelphia, $6,300. Architect, private plans. Owner, Antonio Basele, 111 Dawson street, Philadelphia. Brick, 1 story, 34x67 feet, slag roof, cement floors, electric work. Contract awarded to A. Snyder & Son, 544 Roxborough avenue, Philadelphia.

Synagogue (add. and alts.), 2033 East Allegheny avenue, $6,000. Architect, private plans. Owners, Congregation Shaare Hachok, on premises. Brick, 1 story add., 17x42 feet, general alterations. Contract awarded to David Resnick, 1710 North Lindenwood street, Philadelphia.

Residence, East side Murray street, South of Duncan street, Philadelphia, $4,250. Architect, private plans. Owner, George Mullin, Hole street and Bustleton pike, Philadelphia. Frame, 2 stories, 24xx30 feet, pine floors, electric lighting. Contract awarded to Chancellor Day, Holmesburg, Philadelphia.

Office and Show Room (add.), 1109 South Broad street, Philadelphia, $3,700. Architect, private plans. Owners, Plotnick & Brumbaugh, 1109 South Broad street, Philadelphia. Brick, second story add., 20x28 feet. Contract awarded to Sutton & Stephenson, 1317 Washington avenue.

Residence, Northwest Corner Princeton avenue and Loretta street, $12,000. Architect, private plans. Owner, Edward Hoffman, 937 East Westmoreland street, Philadelphia. Brick, 2 stories, 21x18 feet, shingle roof, oil heat, electric light. Contract awarded to J. D. Fotheringham, 1000 Arrott street, Philadelphia.

Residence (add. and alts.), 2917 North Twenty-second street, Philadelphia, $10,000. Architect, private plans. Owner, D. S. Mittleman, on premises. Brick, 2 stories add., 13x56 feet, general alterations. Contract awarded to Katz & Klymer, 5038 North Hutchinson street.

Residence and Store (alts.), 1229 North Fifty-second street, Philadelphia, $2,400. Architect, private plans. Owner, William Wald, 1229 North Fifty-second street, Philadelphia. General alterations. Contract awarded to I. Manin, 5226 Berks street, Philadelphia.

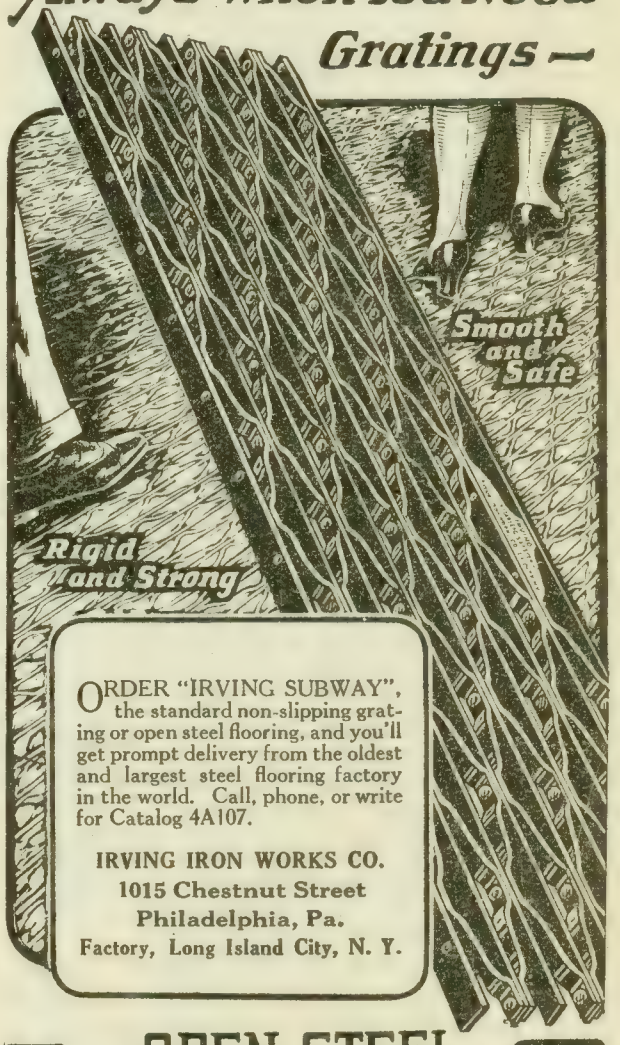
Store and Residence (alts.), 2045 South street, Philadelphia, $9,500. Architect, N. Blum, 858 South Fifty-fifth street, Philadelphia. Owner, Jacob Cohen, 2013 South street, Philadelphia. Brick, 16x25 feet, slag roof, general alterations. Contract awarded to Joe Sweet, 2549 North Spangler street, Philadelphia.

Printing Shop, Northeast Corner Frankford avenue and Westmoreland street, $4,500. Architect, private plans. Owners, Armstrong & Co., Frankford avenue and Westmoreland street. Brick, 1 story, 17x96 feet, slag roof, electric light. Contract awarded to D. K. Hiltebeitel, 1501 Hunting Park avenue.

Residence, East side Clark street, North of Grant avenue, Philadelphia, $3,500. Architect, private plans. Owner, Mrs. E. J. Worthington, Clark street, Bustleton, Pa. Frame, 2 stories, 26x30 feet, pipeless heater, electric light. Contract awarded to B. H. Worthington, Byberry, Philadelphia.

Residences (2), Lefevre and Belgrade streets, Philadelphia, $7,500 total. Architect, private plans. Owner, John Jablewicz, 3415 Benner street, Philadelphia. Brick, 2 stories,

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16x50 feet, 16x43 feet, slag roof, pine floors, electric light. Contract awarded to Alex. Jastryembski, 4339 Bermuda street.

Residences (14), Lardner street, East of Argyle street, Philadelphia, $3,500 each. Architect, private plans. Owner, Joseph Stamkowski, Fifth and Wyoming avenue, Philadelphia. Brick, 1 stories, 16x30 feet, 11x12 feet, slag roof, electric light, pine floors. Contract awarded to Alex. Jastryembski, 4339 Bermuda street.

Miscellaneous Grading and Paving, Philadelphia. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Contracts awarded to low bidders on bids due July 8th. Grading—Clarkson street and others, James F. Molen, 364 East Penn street, Philadelphia, $2,207.54. Folson street, Forty-eighth to Forty-ninth street, Thomas H. Neely, Twenty-seventh and Ritner streets, Philadelphia, $377.85. Hutchinson street and others, T. H. Neey, Twenty-seventh and Ritner streets, $1,627. Yocum street, Fifty-fifth to Fifty-sixth street, T. H. Neely, Twenty-seventh and Ritner streets, $1,165.13. Eighteenth street, Rockland to Ruscomb, James F. Nolen & Son, 364 East Penn street, Philadelphia, $594.86. Asphalt paving—Calvert street, Second to Third street, Mack Paving Co., Nicetown and C street, Philadelphia, $7,949.12. Ellett street, McCallum to Lincoln avenue, Mack Paving Co., Nicetown lane to C street, Philadelphia, $21,968.49. Country road improving—Clarkson and Marwood road, Benjamin Foster Co., Twentieth and Venango street, $5,720. Linden, Torresdale to Frankford avenue, Curtis Brothers, State road, Philadelphia, $16,721.85. Luzerne street, G to K street, B. Foster Co., Twentieth and Venango streets, Philadelphia, $9,372. Medary avenue and others, B. Foster, Twentieth and Venango, $12,846.25; Suffolk avenue, Eightieth to Eighty-fourth, Philadelphia, Benjamin Foster Co., Thirtieth and Venango streets, Philadelphia, $12,006.60. Smoke screen, Stokley street bridge, J. B. McHugh, 802 Markoe street, Philadelphia, $2,325. Clean and paint Stokey street bridge, J. B. McHugh, 892 Markoe street, Philadelphia, $1,677. Furnish and deliver timber, bridge and sewer division, Miller-Robinson Co., Sixth and Sedgley streets, Philadelphia, $4,312.50. Schedule E—Castings, Clark Iron Foundry Co., Thirty-fifth and Gray's Ferry road, $8,000.

Miscellaneous Work, Philadelphia. Owners, Bureau of Highways, Department of Public Works, 216 City Hall. Contracts awarded to low bidders on bids received July 15th. Grading and paving—Broad street, Pattison to Terminal, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $55,987.30. Paving—Spring Garden, Parkway, Art Museum Plaza to Crescent, Union Paving Co., Thirtieth and Locust streeets, Philadelphia, $27,-901. Schedule C—Furnishing and deliver Lutz asphalt heaters, Good Roads Equipment Co., City Center Building, Philadelphia, $29,940. Oil tank wagons, Service Supply Corp., Twentieth and Venango streets, Philadelphia, $1,950. Schedule D—Furnish asphalt paving mixture, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $62,000.

Shop, Southwest corner Nineteenth and Indiana Avenue, Philadelphia, $25,000. Architect, private plans. Owners, National Label Co., on premises. Brick, 2 stories, 0Ox75 feet, slag roof, electric work. Contract awarded to Jas. F. Reilly, 601 Real Estate Trust Building, Philadelphia.

Residence (add.), 1049 East Chelten Ave., Philadelphia, $12,000. Architect, private plans. Owner, Mr. Freason, on premises. Brick, 2 stories addition, 17x16 feet, hardwood and pine floors, electric light. Contract awarded to John T. Allen, Woodbury, N. J.

Office (alts.), 247 South Fifteenth Street, Philadelphia, $2600. Architect, private plans. Owner, Buchbaum and Son, on premises. General alterations. Contract awarded to S. A. Sims Co., 2313 Walnut street, Philadelphia.

Hospital (alts.), 2215 Walnut street, Philadelphia. Architect, Addison H. Savery, 1309 Locust Street Philadelphia. Owner, Dr. William L. Clark, on premises. Carpentry and millwork, steam heat, electric light, slag and metal roof, composition floors, painting, plastering. Contract awarded I. A. Dunkelbarger, 71 E. Herman Street, Philadelphia.

Pennsylvania Construction News

Cottage, Muncy, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, State Industrial Home for Women, F. Smith, 658 City Hall, Philadelphia. Low Bidders: Penna Engr. & Const. Co., Philadelphia (Read Estate Trust Building). Heating, V. N. Welamb Co., 2315 Walnut St., Philadelphia. Plumbing, Erpel Plumbing and Heating Company, Williamsport, Pa. Electric: Prior Salada, Williamsport, Pa.

School (add.), Berwyn, Pa. Architect, Franklin D. Edmunds, Real Estate Trust Building, Philadelphia. Owner, School Board of Berwyn Township, Pa. Frame, cut stone, 1 story, 85x37 feet, shingle roof, pine and cement floors. Architect taking bids due August 4th.

High School (Junior), Leola Upper Leacock Township, Pa. Architect, H. Y. Shaub, Lancaster, Pa. Owner, Upper Leacock Township School Board, care of Architect. Brick, concrete block, steel, 1 story and basement, 150x200 feet, slate and concrete, maple, pine and cement floors, metal lath, rolled steel sash skylights, ornamental iron work, bond. Owner taking bids due August 6th.

Cleveland School, Plains, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Plains School Board, A. J. Zawoiski, secretary, Wilkes-Barre, Pa. Frame, 2 stories, 2 rooms, flat roof, pine floors, heating extension, electric light. Plans in progress.

High School, Kerry street, Wilkes-Barre, Pa., $1,500,000. Architect, R. Ireland, 81 North Washington street, Wilkes-Barre, Pa. Owners, Wilkes-Barre School Board, Floyd Siegfried, secretary, 81 North Washington street, Wilkes-Barre, Pa. Steel, brick, reinforced concrete, 3 stories, 492x184 feet, maple and composition floors, hollow tile, safety treads, roof ventilators, ornamental iron, iron stairs, bond, steel skylights, tile work, electric light, metal lath. Architect will take bids on foundations next week.

Grade School, Plymouth, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Plymouth School Board, J. Daugherty, secretary, Plymouth, Pa. Semi-fireproof, 2 stories, 12 rooms. Plans in progress.

High School (add.), Plymouth, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Plymouth School Board, J. Daugherty, secretary, Plymouth, Pa. Fireproof, 2 stories, 6 rooms. Plans in progress.

School (add.), Plymouth, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Plymouth School Board, J. Daugherty, secretary, Plymouth, Pa. Semi-fireproof, 2 stories, 4 rooms. Plans in progress.

Grade School, Wanamie, Newport Township, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Newport Township School Board, Mr. Sheffka, Glen Lyon, Pa. Semi-fireproof, 2 stories, 10 rooms, flat roof, maple floors, safety treads, electric light. Will take bids in about three weeks.

High School, Swoyerville, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Swoyerville School Board, Swoyerville, Pa. Semi-fireproof, 2 stories, 80x110 feet, slag roof, maple floors, hollow tile, safety treads, roof ventilators, steel skylights (heating, plumbing and electric separate), metal lath. Owners wil ltake bids in two weeks.

Theatre (moving picture), Norwood, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owner, M. A. Benn, Sixty-fifth and Woodland avenue, Philadelphia. Brick, steel, 1 story and basement, 1,500 capacity, electric light, slag roof, cement floors. Plans in progress.

Garage, 2313-17 Liberty street, Allentown, Pa. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owner, A. Aronsky, on premises. Brick, steel, 1 and 2 stories, 60x100 feet, slag roof, cement floors, plate glass, galvanized iron skylights. Plans completed. Owner taking bids.

Court House, Norristown, Pa. Architects, Rankin, Kellogg & Crane, 1805 Walnut street, Philadelphia. Owners, Montgomery County, Daniel Stourt, Norristown, Pa. Details undecided. Preliminary plans in progress.



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Public School No. 1 (add.), Morton, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owners, Morton School District No. 1, Mr. Simpcon, Morton, Pa. Brick, 1 story, 25x35 feet, built-up roof, maple floors, plumbing, hot water heat extension, electric light extension. Plans in progress.

Stadium, Abington, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, School Board of Abington Township, W. J. Chase, Roslyn, Pa. Work contemplated. Sketches drawn.

Parish House and Sunday School, Wyncote, Pa. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Wyncote Episcopal Church, Rev. Clarence C. Silvester, Wyncote, Pa. Stone, 1 and 2 stories, slate roof, wood floors, electric light. Plans in progress.

Church (alts. and add.), Sellersville, Pa. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, St. Michael's Lutheran Church, Sellersville, Pa. Stone, 1-room add. Plans in progress. Owners will take bids from local contractors.

Residence (alts.) to Apartment, Scranton, Pa. Architect, F. Nelson, Connell Building, Scranton, Pa. Owner, Joseph Keller, 1114 Linden street, Scranton, Pa. Brick, 3 stories, 24x38 feet, general interior alterations. Plans in progress.

Church, Scranton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, St. Anthony's Roman Catholic Church, Rev. F. Rauze, 1402 Short street, Scranton, Pa. Brick, stone, 1 story, 82x44 feet, asphalt shingle roof, pine floors, electric light. Architect ready for bids.

School and Hall, Olyphant, Pa. Architect, Lester Davis, Rehrig Building, Scranton, Pa. Owners, Sts. Cyril and Methodius Church, Rev. M. Guryansky, Olyphant. Brick, steel, stone, 2 stories, 50x150 feet, slag roof, maple floors, safety treads (heating, plumbing and electric separate). Architect ready for bids.

Residence, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Dr. H. F. Jones, 404 Broad street, Spring City, Pa. Brick, 1½ stories, 28x32 feet, green asbestos shingle roof, oak and tile floors, terra cotta, steel and wood sash, vapor-oil burning heat, electric light (heating and lighting fixtures reserved). Plans in progress. Owner will take bids.

School, Port Griffith, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Jenkins Township School Board, J. Killian, Inkerman, Pa. Brick, 2 stories, 4 rooms, slag roof, pine floors, electric light. Architect taking bids due August 2nd.

Stores and Apartments (4), Ardmore, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, H. J. Rittenhouse, Ardmore, Pa. Brick, stucco, 3 stories, vapor heat, electric light, metal lath, tile and marble work, slag roof, hardwood and composition floors, structural and ornamental steel, cut stone, vault lights. Stabler & Harvey, Inc., Packard Building, taking sub-bids due August 2nd.

Storage Building, Old Lancaster road and Dayton avenue, Bryn Mawr, Pa. Architect, Charles M. Wells, Rutledge, Pa. Owners, Oakland Service Co., B. B. Baseler, Bryn Mawr, Pa. Concrete, 2 stories, 50x80 feet, built-up roof, concrete floor and ramp, steam heat, electric light, rolled steel sash and skylights, roof ventilators. Owners taking bids due as soon as possible.

Bank (alts. and add.), Wyoming avenue and Spruce street, Scranton. Architects, E. H. Davis and George M. D. Lewis, Union Trust Building, Scranton. Owners, Traders' National Bank, J. J. Jerman, president, Scranton, Pa. Brick, stone, steel, fireproof, 2 stories, 55x45 feet, tile roof, mastic and terrazzo floors, hollow tile, cabinet work, sheet metal metal window guards, waterproofing, cut stone, ornamental iron, plaster, bronze, kalamein doors, tile and marble, metal lath (heating, plumbing and electric separate). Architects taking bids.

School Building, Lansford, Pa. Architect, Sigmund J. Laschenski, Harrison Building, Philadelphia. Owners, SS. Peter and Paul Parish, care of D. Cardinal Dougherty, Eighteenth and Race. Brick, steel, terra cotta, 2 stories and basement, 48x10 feet, slate and slag roof, maple and tile floors, vapor heat, electric light, rolled steel sash, wood and iron stairs. Architect taking bids due August 3rd, 2 P. M. (Daylight Saving Time).

Incinerating Plant, Easton, Pa. Engineer, C. A. Reese, City Hall, Easton, Pa. Owners, City of Easton, J. H. Warner, Clerk, City Hall, Easton, Pa. Brick. Work contemplated.

Garage and Show Room, Easton, Pa. Architect, private plans. Owner, William Krantz, 1126 Northampton street, Easton, Pa. Reinforced concrete, brick, 2 stories, 100x141 feet, slag roof, concrete floors, electric light. Owner ready for bids.

Bank, Millheim, Pa., $70,000. Architects, Tilghman-Moyer Co., 141 North Ninth street, Allentown, Pa. Owners, Farmers' National Bank, Millheim, Pa. Brick, stone, steel. Sketches in progress.

Dye House, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Allentown Converting & Silk Dyeing Co., Allentown. Brick, steel, 1 story, 34x80 feet, slag roof, concrete floors, roof ventilators, electric light, steel sash. Plans in progress.

Bank (add.), Office and Vault, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Allentown National Bank, 11 North Seventh street, Allentown, Pa. Brick, concrete, 2 stories, 24x35 feet, marble floors, heating extension, electric light, tile work. Plans in progress.

Apartment House, Allentown, Pa, Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, J. Epstein, care of architect. Brick, 3 stories, 70x20 feet, slag roof, hardwood floors, steam heat, electric light, tile work. Plans in progress. Owner will build.

Grade School, Sharon Hill, Pa. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Sharon Hill School Board, Sharon Hill, Pa. All bids rejected. Will take revised bid.s

Laundry Building, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Lehigh Modern Laundry, care of architect. Brick, 2 stories, 40x20 feet, slag roof, fireproof floors, roof ventilators, steel sash. Architect ready for bids.

Store (alts. and add.), 159 Hamilton street, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Berman & Glazier, on premises. Brick, steel, 3 stories, 20x120 feet, slag roof, maple floors, elevators, steam heat, electric light. Owners ready for bids.

Residences (3), Allentown, Po. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, James Roma, 811 North Jordan street, Allentown, Pa. Brick, 2½ stories, 42x40 feet, slag roof, pine floors, hot air heat, electric light. Owner taking bids.

Italian Hall, Allentown, Pa. Architect, E. R. Bitting, **1104 Hamilton street,** Allentown, Pa. Owners, Italian Operative Association, care of architect. Brick, steel, 3 stories, 120x45 feet, slag roof, maple floors, hollow tile, roof ventilators, steam heat, electric light, metal lath, tile work, skylights, iron stairs. Owners taking bids.

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Store and Dwelling (alts. and add.), 754 South Fourth street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Charles Stapler, on premises. Bond, brick work, concrete cement work, iron work, slag roof, tile work, galvanized iron skylights, plastering, metal lath, oak floors, carpentry and mill work, tile and marble work, plumbing, vapor heat, electric work. Architect taking bids due as soon as possible.

Bridge, Route 224, Station 1471, over Little Antietam Creek, West line of Waynesboro Borough, Franklin County, Pa. Owners, Commonwealth of Penn., Department of Highways, Harrisburg, Pa. Reinforced concrete, 2 spans, 34 feet clear, skew 90 degrees, underclear 6.5 feet, with one 5 feet sidewalk, approach construction. Certified check $1,000. Plans $2.50 per set. Owners taking bids due August 10th at 10 A. M.

Road Work, Pennsylvania. Owners, Commonwealth of Penna., Dept. of Highways, Harrisburg. Owners taking bids due August 10th at 10 A. M. Certified check. Plans $2.50 per set.

Allegheny County, R-395, A-4099, Penn & Wilkins Township, 19,450 feet. One course reinforced concrete. Certified check $3,000.

Allegheny County, A-3986, Glassport Boro., 10,896 feet. One course reinforced concrete. Certified check $2500.

Armstrong County, R-69, A-3031, 3764, Parks and Gilpin Townships, $23,923 feet. One course reinforced concrete. Certified check $3500.

radford Co., R-20, Canton Borough, 184 feet. One course reinforced concrete. Certified check $1500.

Delaware County, A-3969, Springfield Township, 8332 feet. One course reinforced concrete. Certified check $2,000.

Erie County, R-87, 258, Mill Creek and Harbor Creek Township, Wesleyville Boro., 11,018 feet. One course reinforced concrete. Certified check $2500.

Luzerne Co., R-169, Bear Creek Township, 12,900 feet. Waterbound macadam surface course. Certified check $2500.

Montgomery Co., R-197, A-4278, New Hanover Township, 9488 feet. One course reinforced concrete. Certified check $2,000.

Northampton Co., R-165, Sec. 3, Lower Mt. Bethel Township, $4234 feet. One course reinforced concrete. Certified check $1500.

Pike Co., R-7, Sec. 1 and 2, Shohola, Dingman, Lackawaxen and Blooming Grove Townships, 58,000 feet. aterbound macadam surface course. Certified check $4,000.

Potter Co., R-103, A-3968, Ulysses Township, 10,560 feet. Waterbound macadam surface course. Certified check $2500.

Potter Co., R-236, A-3359, 3979, Hebron & Clara Townships, 13,750 feet. Waterbound macadam surface course. Certified check $2500.

Warren Co., R-89, Sec. 1, Pittsfield Township, 5448 feet. One course reinforced concrete. Certified check $1500.

Warren and Forest Counties, R-93, Section 1 and 2, Limestone and Hickory Townships. 57,183 feet. One course reinforced concrete. Certified check $4,000.

Washington Co., R-113, Sec. 6, W. Pike Run Township, Centerville and Beallsville Boro. One course reinforced concret. Certified check $2,000.

Westmoreland Co., R-119, Sec. 4 and 6, Unity Township, 4,000 feet. One course reinforced concrete. Certified check $1500.

Westmoreland Co., Allegheny Township, 17,626 feet. One course reinforced concrete. Certified check, $3,000. (R-188, A-3913-3914).

York County, R-441, A-3548, Glen Rock Borough, Shrewsbury and Codorus Townships, 26,493 feet. One course reinforced concrete. Certified check $23500.

Pennsylvania Contracts Awarded

Road Work, Pennsylvania. Owners, Penna. Dept. of Highways, Harrisburg, Pa.

Beaver Co., A-3640, Chippewa Township, 9800 feet. One course reinforced concrete. $75,821.80. Contract awarded to J. C. Devine, Alliance, Ohio.

Greene Co., R-256, S-2, A-3954, Center Township, $15,015 feet. One course reinforced concrete. Contract awarded to E. E. Morris, Waynesboro, Pa.

Labatory, Enola, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, State of Pennsylvania, Department of Agriculture, Harrisburg, Pa. Brick, steel, 1 story and basement, 100x31 feet, 50x106 feet, Barrett roof, cement and rubber tile floors, waterproofing, tile and marble work. Contract awarded to C. W. Strayer, Harrisburg, Pa. Plumbing, J. H. Bowman, Penbrook, Pa. Heating and ventilating, Fisher-McClure Co., Harrisburg, Pa. Electrical, Clark & Morrow, Wormleysburg, Pa.

Chapel and School, Glenolden, Pa. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. George's Roman Catholic Church, Rev. G. E. Orr, Glenolden, Pa. Stone, cut stone, limestone, 1 story and basement, 155x70 feet, asphalt shingle roof, composition, cement and maple floors, safety treads, plumbing, metal ceilings, shoring, dampproofing, vapor heat, electric light, metal lath, rolled steel sash, ornamental iron work, toilet partitions (waterproofing reserved). Contract awarded J. C. Mahoney, Drexel Hill, Pa.

Meeting House (alts. and add.), Owens and Stratford avenue, Lansdowne, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Friends' Meeting House, on premises. Stone, 2½ stories, slate roof, general alterations. Contract awarded Adolph Korn, Lansdowne, Pa.

Community Center, Eighth street, between Sproul and Welsh streets, Chester, Pa., $50,000. Architect, David Levy, Allentown, Pa. Owners, Ohex Sholom Synagogue Community Center, Chester, Pa. Will contain auditorium, gymnasium, swimming pool, meeting rooms, class rooms, synagogue, etc. Contract awarded Jacob Goldburg, Chester, Pa.

Residence (add. and alts.), Scranton, Pa. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owner, L. G. Sylvester, 401 Quincy avenue, Scranton, Pa. Stucco, 2 stories, slate roof. hardwood floors ,tile work, alterations. Contract awarded to Washburn-Williams Co., Scranton, Pa.

Six-Family Apartment Building, Wilkes-Barre, Pa. Architect, Austin Reilly ,Bennett Building, Wilkes-Barre, Pa. Owner, Sandor Engel, 66 West South street, Wilkes-Barre, Pa. Brick, 3 stories, 40xx90 feet, slag roof, hardwood floors, vapor heat, electric light, tile work. Contract awarded to A. M. Hildebrand, 91 Wood street, Wilkes-Barre, Pa.

Church, Emaus, Pa. Architect, H. A. Stetler, Stetler Building, Wyomissing, Pa. Owners, Emaus Moravian Church, P. T. Shultz, Emaus, Pa. Stone, stucco, 1 story, 42x41 feet. Contract awarded to A. P. Hauser, Emaus, Pa.

Hospital, Coatesville, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Coatesville Hospital, Coatesville, Pa. Brick, steel, 3 stories and basement ,121x40 feet, slag roof, cement floors (heating and electric reserved), plumbing, metal lath, bond, ornamental iron. Contract awarded to W. J. Elliott, Coatesville, Pa.

Bank (add. and alts.), Hamilton street, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Allentown Trust Co., 523 Hamilton street, Allentown, Pa. Brick, steel, 1 story, 20x120 feet, slag roof, marble floors, bronze work, ornamental iron, tile and marble, electric light. Contract awarded to Butz & Clader, Ainey Building, Allentown, Pa.

E. Z. Built Silk Mill, Northampton, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, E. Silverback, Northampton, Pa. Brick, steel, 1 story, 127x66 feet, slag roof, wood floors, roof ventilators, cast stone, fire doors, steel sash, electric light. Contract awarded to Pottstown Steel Co., Pottstown, Pa.

Bank and Apartment, Forty Fort, Pa. Architect, F. V. Lacy, 45 Owen street, Forty Fort, Pa. Owners, Forty Fort State Bank, A. A. Kellian, vice-president, Forty Fort, Pa. Brick, steel, terra cotta, 50x92 feet, built-up roof, marble and maple floors, metal window guards, iron stairs, ornamental iron, bronze work, vault, steam heat, electric light. Contract awarded to A. J. Sordoni, Forty Fort, Pa.

Grandstand, Swarthmore, Pa. Architect, George C. Baum, 1511 Arch street, Philadelphia. Owners, Swarthmore College, Swarthmore, Pa. Structural steel, concrete. Contract awarded Barclay-White Co., 1713 Sansom street, Philadelphia.

Convent, Scranton, Pa. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owners, St. Ann's Roman Catholic Church, Rev. P. Darrah, care of architect. Brick, veneer, 3 stories, 40x80 feet, slate roof, oak, pine and tile floors, vapor heat, electric light, tile and marble, ornamental iron. Contract awarded to Barrett Const. Co., Scranton, Pa.

Church (alts. and add.), near Eighth and Spring streets, Reading, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Joseph's Roman Catholic Church, Rev. T. J. Harron, Reading, Pa. Stone, architectural terra cotta, steel, 1 story and basement, 25x76 feet, slag, tile and built-up roof, cement and pine floors, painting, glazing, waterproofing, metal lath, tile work, bond, ornamental iron, cork floors. Contract awarded to D. H. Hunter, Reading, Pa.

Market Street Bridge, Wilkes-Barre, Pa., $1,777,162.50. Engineer, Benjamin H. Davis, Whitehall Building, New York City. Owners, Luzerne County, Harry T. Butts, Controller, Court House, Wilkes-Barre, Pa. Concrete, steel, 12 arch spans, 93 feet wide, 1,382 feet long. Contract awarded to Walter S. Rae, Pittsburgh, Pa.

North Street Bridge, Wilkes-Barre, Pa., $69,523. Owners, Luzerne County, Harry T. Butts, Controller, Court House, Wilkes-Barre, Pa. Strengthening North Street Bridge. Contract awarded to Whittaker & Diehl, Harrisburg, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Lebanon County, R-140, A-4064, East Hanover Township. One course reinforced concrete. Contract awarded to D. L. Risser, Lebanon, Pa., $75,604.15.

Westmoreland County, A-965-A, Derry Township. One course reinforced concrete. Contract awarded to M. Bennett & Sons, Indiana, Pa., $20,303.45.

Adams County, A-4120, Mt. Joy Township, 14,256 feet. One course reinforced concrete. Contract awarded to John S. Tetier, Taneytown, Md., $94,606.84.

Warren County, R-88, Columbus Township, 5,354 feet. One course reinforced concrete. Contract awarded to Milliron Const. Co., Dubois, Pa., $60,244.61.

Franklin County, R-522, A-4155, Greene and Guilford Townships. Contract awarded to I. F. Hepler, Tyrone, Pa., $34,975.84.

New Jersey Construction News

Bank and Office Building, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Bankers' Trust Company, 1210 Atlantic Ave., Atlantic City. Brick, 2 stories, 25x120 feet, slag and concrete roof, hollow tile, maple and composition floors, Bond, vault, bronze work, tile and marble, metal lath, (heating, plumbing and electric, reserved.) Architect taking bids due August 5th.

Church (alts. and add.), Convent, Camden, N. J. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Our Lady of Mt. Carmel Roman Catholic Church, Rev. Brendan C. Shea, on premises. Plans in progress.

Residence, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, name withheld. Stone, 2½ stories, 112x42 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble, steel sash. Plans in progress.

School, Vincentown, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Southampton School Board, H. S. Stackhouse, Vincentown, N. J. Brick, 1 story, 66x80 feet. Plans in progress.

Hospital, Totowa, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, State of New Jersey, W. J. Ellis, State House, Trenton, N. J. Brick, steel. Plans in progress.

Hotel, Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, Mr. Reynolds, care of architect. Fireproof, 14 stories, 65x100 feet. Sketches in progress.

Residence, Spring Lake, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, W. M. Butler, care of architect. Hollow tile, stucco, 2 stories and basement ,28x50 feet, tile roof, tile work, hardwood floors, hot water heat, electric light. Plans in progress.

Stores and Apartments (3) and Apartment Building, Atlantic City, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, Benjamin King, care of architect. Brick, 3 stories, 120x60 feet, slag and tile roof, hardwood floors, hot water heat, electri clight, tile work. Owner will sublet.

Stores (5) and Garage (add. and alts.), South Carolina avenue, Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owners, Saul Brothers, New York and Pacific avenues, Atlantic City, N. J. Reinforced concrete, steel, 4 stories, 100x165 feet, slag roof, concrete floors, hollow tile, elevators, waterproofing and dampproofing, iron stairs, fire doors, rolled steel sash, tile work, metal lath, electric light. Architect will be ready for bids in ten days.

Bank and Office, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Bankers' Trust Co., Atlantic City, N. J. Brick, 2 stories, 25x120 feet, slag and concrete roof, hollow tile. Architect ready for revised bids.

Apartment, States avenue, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Shenkman & Gold, 110 States avenue, Atlantic City, N. J. **Brick, steel,** 5 stories, slag roof, 41x98 feet, hardwood floors, hollow tile, elevators, waterproofing, fire escapes, steel sash and skylights, tile and marble, metal lath, steam heat, electric light. Plans in progress. Owners will build.

Jewish Community Center, Atlantic City, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Jewish Community Center, care of architect. Fireproof, 3 stories and basement, 130x81 feet, slag roof, hardwood and concrete floors, hollow tile, metal lath, tile and marble, electric light (heating reserved). Architect taking revised bids due August 6th.

Completion of Auditorium and Gym, North Wildwood High School, North Wildwood, N. J. Architects, H. Rex Stackhouse and W. W. Donohue, 1120 Locust street, Philadelphia. Owners, Board of Education, J. H. Long, chairman, North Wildwood, N. J. Brick, hollow tile, 2 stories, 154x72 feet, slag roof, maple, cement, composition floors, heating, tile, plumbing, lockers and showers. Plans ready for builders. Bids due August 10th.

School, Deep Water, Salem County, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Lower Penn's Neck Township, N. J. Cinder block, frame, 1 story, 146x56 feet (plumbing, heating, electric separate bids), slag roof, pine floors, electric. Owners taking revised bids due August 2nd, 8 P. M. (Daylight Saving Time).

Bank, Margate City, N. J. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owners, Margate Trust Co., care of architect. Brick, steel, stone, 2 stories, 45x80 feet, slag and tile roof, tile, marble and concrete floors, electric light, metal lath, tile work, ornamental iron or bronze. Architect taking bids.

Cottage, Ventnor, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, care of architect. Brick, 2 stories, 35x35 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Architect ready for bids.

Court House (alts. and add.), Mt. Holly, N. J. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owners, Burlington County Board of Chosen Freeholders, Camden, N. J. Brick, 2 stories and basement, 50x39 feet, concrete work, linoleum floors, carpentry and mill work, plastering, painting and glazing, bond, **Treadlite tile floors.** Owners taking bids due July 30th, 10 A. M. Certified check 5 per cent. of bids.

Hotel, Wildwood avenue and Boardwalk, Wildwood, N. J. Owners, Hockenbury System, Inc., Harrisburg, Pa., and Heber Crane, president, Wildwood Title & Trust Co., Wildwood, N. J. Concrete, brick, steel, 135 rooms and baths, stores. Work contemplated. Site selected.

Residence, Trenton, N. J., $3,000. Architect, private plans. Owner, J. McDade, 440 Cuyler avenue, Trenton, N. J. Frame, 2½ stories, 16x38 feet, pine floors, electric light. Permit issued.

School (alts. and add.), Moorestown, N. J. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of Education, Township of Moorestown, N. J. Low bidder: Tourison & Co., 6924 Cresheim road, Philadelphia, Pa.

New Jersey Contracts Awarded

Warehouse, Store, Apartments and (20) Garages, Friend avenue and Penn street, Camden, N. J. Architect, Howard E. Hall, Merchantville, N. J. Owner, Jacob Rosenkrantz, on premises. Brick, steel, 2 stories and basement, 80x100 feet, warehouse, 40x100 feet, slag roof, maple and cement floors, plumbing, metal ceilings, ornamental iron work, metal lath, hot water heat, electric light. Contract awarded M. W. Cooperson, Van Russ Building, Camden, N. J.

Residence, Ventnor, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owners, Bank, Wickman & Dreyfuss Co., 128 St. Charles Place, Atlantic City, N. J. Brick, 2 stories, 24x38 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Wochner & Brander, Venice Park, N. J.

Cottage, Northfield, N. J. Architect, A. L. Brooks, Humphrey Building, Atlantic City, N. J. Owner, A. Wells, Northfield, N. J. Brick, frame, stucco, 1½ stories, 30x40 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to W. Van Sant, Linwood, N. J.

High School (add.), Wildwood, N. J. Architects, V. B. Smith, Atlantic City, and L. H. Boyer, Wildwood, N. J. Owners, Board of Education, William Todd, secretary, Wildwood, N. J. Contract awarded to J. M. Yardley, 1700 Walnut street, Philadelphia, $180,981. Plumbing, T. T. Weldon, Arch street, Philadelphia. Heating, Richard Johnston, Ocean City, N. J. Electric, Northern Elec. Co., 1309 West Venango street, Philadelphia.

School, Oaklyn, N. J. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Board of Education, W. C. Linck, Oaklyne, N. J. Brick, reinforced concrete, steel, 2 stories and basement, 193x113 feet (plumbing, heating and electric separate), slag roof, cement and maple floors, painting and electric, glazing, waterproofing, metal lath, hollow metal sash, bond, ornamental iron work, iron stairs, precast stone. Contract awarded D. A. McClelland, Drexel Building, Philadelphia. Heating, Harry Knecht, Collingswood, N. J. Plumbing, L. Layman, Audubon, N. J. Electric, C. S. Wright, Camden, N. J.

Administration Building, Linden street, between Fifth and Sixth, Camden, N. J. Archi-

TILE
MARBLE
MOSAIC
CERAMICS
Camden Tile Co.
1484 Bradley Avenue
CAMDEN, N. J.
BELL PHONE
CAMDEN 3827 W

GENERAL INSURANCE
SMITH-AUSTERMUHL CO.
5th and Market Streets, Camden, N. J.
BELL PHONE, CAMDEN 3210
KEYSTONE, CAMDEN 3147
SURETY BONDS

tect, Paul Cret, Otis Building, Philadelphia. Owners, Delaware River Joint Commission, Widener Building, Philadelphia. Brick, steel, granite, limestone, 3 stories and basement, 105x45 feet, slag and tile roof, cement floors (plumbing, heating equipment, drainage separate), cement floors, marble work, bond. Contract awarded D. Lutz & Co., Twenty-third and Chestnut streets, Philadelphia, $132,800. Plumbing, Mazzola & Marano, 739 South Seventh street, Philadelphia, $5,848. Electric, Strang Elec. Co., 214 South Seventh street, Philadelphia, $7,200. Heating, Mazzola & Mariana, 739 South Seventh street, Philadelphia, $6,200.

Stores, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Mrs. J. Rittman, care of architect. Brick, steel, 2 stories, 40x60 feet, slag roof, pine floors, electric work. Contract awarded to Applestein & Kaplan, Brunswick and Olden streets, Trenton, N. J.

Residence, Bellevue avenue, Trenton, N. J. Architect, H. S. Aitken, Broad Street Bank Building, Trenton, N. J. Owner, H. M. Hortman, care of architect. Brick, 2½ stories, 30x48 feet, slate roof, hardwood floors, tile work, electric light. Contract awarded to H. Hilton, 21 Sanford street, Trenton, N. J.

Sunday School (add.), West State street, Trenton, N. J., $30,000. Architect, Walter Hankin, 224 East Hanover street, Trenton, N. J. Owners, Grace Baptist Church, State and Hermitage avenue, Trenton, N. J. Stone, brick, stucco, 2 stories, 30x66 feet, slag and slate roof, maple floors, heating extension, electric light. Contract awarded to Edward LaRue, 53 South Hermitage avenue, Trenton, N. J.

Residence, 1044 Melrose avenue, Trenton, N. J., $5,500. Architect, private plans. Owner, Fred Kerr, 318 South Cook street, Trenton, N. J. Brick, 2½ stories, 40x100 feet, slate roof, pine floors, electric work. Contract awarded to Ernest Holford, 1015 Melrose avenue, Trenton, N. J.

Miscellaneous Construction News

Manufacturing Plant, Fairport Harbor, Ohio. Architect, The Ballinger Company, Twelfth and Chestnut Streets, Philadelphia. Owner, P. C. Tonson & Company, 27 Washington Avenue, Philadelphia. Owner taking bids on plumbing, heating and electric work due August 3rd.

Main Building and Power House, Baltimore City College, Baltimore, Mr. Aruchitects, Buckler & Fenhagen, Baltimore, Md. Owners, City of Baltimore, H. Jackson, Mayor, R. Garrett, Chairman, Baltimore. Main building, stone, cut stone, steel, 3 stories and basement, 161x360 feet, power house, reinforced concrete, brick, 1 story, irregular in size, steam heat, electric light, metal lath, tile, marble and terrazzo work, rolled steel sash and skylights, fire and kalamein doors, bond, iron stairs, ornamental iron work, slag, tile, variegated slate roof, cement and pine floors, hollow tile, elevators, roof ventilators, metal window guards, swimming pool, granite, caulking, cut cast stone, iron ladder, iron vault doors, metal stall partitions, linoleum floors, plumbing, ventilating system, Anti-Hydro, Western, Ironite, membrane waterproofing, bronze work, miscellaneous brass work, bloxonend flooring, nonslip terrazzo treads, cold water paint. Certified check, $50,000. Plans may be secured from Committee of Public Improvements, Hearst Tower Building, Baltimore. Deposit, $150, refunded. Owners taking bids due August 4th.

Road Work, Delaware. Owners, State Highway Dept., Dover, Del. Owners taking bids due August 11th at 2 P. M.

Contract CN30, Richardson Park, Lancaster Pike, 1.68 miles. Ezcavation, borrow, broken stone base course, concrete pavement, metal joint, concrete, R. C. Pipe, guard rail, wood shoulder curb.

Contract CN31A, Rogers Corner, Eden Park, 0.80 miles. Clearing, grubbing, excavation, borrow, concrete pavement, amiesite, metal pipe, concrete gutter.

Contract CS55, Selbyville-Williamsville, 4.2 miles. Clearing, grubbing, ezcavation, borrow, sand asphalt, concrete, metal pipe, reinforcement.

Contract F. One portable gasoline driven air compressor. Capacity 90 C.F.M., 100 pounds pressure.

Miscellaneous Contracts Awarded

Manufacturing Plant, Fairport Harbor, Ohio. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, P. C. Tonson & Co., 27 Washington avenue, Philadelphia. Reinforced concrete, steel, brick, hollow tile, 2 stories, 221x121 feet, slag roof, cement floor, flat slab construction, steam heat, electric light, plumbing. Contract awarded Mitzel & Shields Co., Cleveland, Ohio.

Shrine Chapel of Our Lady of the Rosary, Syracuse, N. Y. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Dominician Sisters of the Perpetual Rosary, Syracuse, N. Y. Brick, hollow tile, 47x161 feet (heating reserved), electric light, felt an dtile roof, wood floors, plumbing. Contract awarded Frank A. O'Hara, 287 Madison avenue, New York.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Low bidders:

Contract No. 68, Cedar Neck School towards Milford, 2.10 miles. Highway Eng. & Const. Co., Selbyville, Del., $15,231.

Contract CN33, Townsend-Dexter's Corner, 4.2 miles. Kirk Brothers, Upper Darby, Pa., $34,540.

Contract CS54, Harbeson-Indian Mission, 4.71 miles. Highway Eng. & Const. Co., Selbyville, Del., stone $109,030.50, slag $103,893.

(Continued fro page 471)

completion to determine whether or not they are tight.

As he says, "if the mason contractor knows that he will not be paid until all flues are tested and proved tight, he will take extra precautions to see that all his workers understand that condition, and they in turn, realizing what it will mean to them to make it good if their work is defective, will take additional pains to do it well."

Most of the things mentioned by him, as he further states, "are known to and observed by the best bricklayers, but there are many others less experienced who have not given as much thought and attention as they should to the importance of safe chimney construction. For the latter's work a test is imperative. For the good bricklayers such tests would prove their fitness and afford protection against incompetent competition. Specifications frequently call for the heating contractor to test flues before connecting heating apparatus and to "report any leaky flues for correction"—but by this time the mason may have left the building and, as is often the case, the building itself may have been plastered or so far finished that corrections are both difficult and costly and so the conditions are tolerated n spite of the perpetual fire menace as well as the annoyance and added cost of heating."

Mr. Boyd goes on to suggest that all specifications for building construction contain a clause under "masonry work" requiring that before the scaffolding is removed from around any chimney and before any chimney walls or breasts are plastered, but not until after the mortar has seasoned, each flue shall be given a separate and thorough smoke test by the mason contractor. Leaks into adjacent flues should, he says, "be especially looked for and not more than one flue shall be tested at one time, and any leaks which may develop shall be promptly made tight before the chimney work will be accepted as satisfactory.

He concludes with this statement—which is the crux of his recommendations, "Fires caused by electricity are classed as only partially preventable, yet with the widespread use of electricity it is not responsible for so great a loss as defective chimneys and flues. This can be attributed in part to the National Electric Code which regulates the installation of electrical wiring and appliances. But even of more importance in lessening the loss from this cause, especially in all new construction, is the further fact that all electrical installation must be inspected by organizations having jurisdiction and that a certificate must be issued by them before fire insurance policies will be written on the building. Why not the same provision as to every chimney built? The question then naturally arises, why not a National Chimney Code?"

"To design and build chimneys according to the provisions of such a code would be perfectly feasible. To inspect all flues and when found tight to issue a certificate to that effect and to make all insurance contingent upon such certificates is surely also but common sense. The Chimney Ordinance of the National Board of Fire Underwriters could serve as a basis on which a National Chimney Code could be drawn up and once it was prepared and recognized as authoritative, it could be put into force just as the Electrical Code now is. With the backing of fire underwriters, fire prevention organizations, architects, contractors, workmen and owners, it would not be long before the fire losses due to defective chimneys and flues would be practically eliminated with respect to new construction."

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
hitectural Cast Cut Stone Co.....Westmont, N. J.

ARCHITECTURAL IRON WORK
aker City Art Metal Works,
2445 N. Second St., Phila.

AREA GRATINGS
owhead Iron Works of Pa., Inc.,
65th and Chester Ave., Phila.
ing Iron Works.....1015 Chestnut St., Phila.

ARTESIAN WELLS.
dpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
bbins, Chas. H., Co. .....1729 Sansom St., Phila.
ber, F., Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
e Print Shop.....1520 Sansom St., Phila.
bbins, Chas. H., Co.....1729 Sansom St., Phila.
ber, F., Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER.
e Print Shop.....1520 Sansom St., Phila.
bbins, Chas. H., Co. .....1729 Sansom St., Phila.
ber, F., Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS.
ezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
, Janeway, & Co..Real Estate Trust Bldg., Phila.
M. & C. M. Siner..Church and Tacony Sts., Phila.
elsior Brick & Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving).
tcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
chell Bros. .....2125 Race St., Phila.
eph Rotornado.....4740 Milnor St., Phila.

BUILDERS' SUPPLIES.
vice Supply Corporation,
20th and Venango Sts., Phila.
e Van Sciver Corporation,
The Parkway at 24th St., Phila.
st Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
skey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
hitectural Cast Cut Stone Co. ...Westmont, N. J.
eland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
e Van Sciver Corporation.
The Parkway at 24th St., Phila.
st Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
auro, John.....7732 Ardleigh St., Phila.
ssiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
ezey, John R. Glenwood Ave. w. of 22nd St., Phila.

COLUMNS (Metal).
rce Fireproof Co. .....1911 N. 2nd St., Phila.

COMPOSITION FLOORS.
t Bros. .....4250 Ogden St., Phila.

CONCRETE SEWER PIPE.
udsburg Septic Tank Co..328 Chestnut St., Phila

CONCRETE WORK.
siah, Frederick.. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
T. Ward Co. .....617 Filbert St., Phila.
vice Supply Corporation, 20th and Venango Sts.

CORK FLOORING
ezey, John R. Glenwood Ave. w. of 22nd St., Phila.
by Battersby & Co. .....810 Noble St., Phila.

CURTIS WOODWORK.
ingham Co. ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
lding News Pub. Co. ...1530 Chestnut St., Phila.

DAMPPROOFING.
i-Hydro Waterproofing Co.,
24th and Parkway, Phila.
nett Bingswanger.....829 N. 3rd St., Phila.
crete Waterproof Paint Co..829 N. 3rd St., Phila.
ster Builders Co., ...Otis Bldg., Phila.
scon Laboratories.....1505 Race St., Phila.

DOOR BEDS
rphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS.
bbins, Chas. H., Co. .....1729 Sansom St., Phila.
ber, F. Co. .....125 S. 12th St., Phila.
ll, J. H., Co. .....1315 Cherry St., Phila.

FENCES.
tit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
ts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
sbord, Wolf .....4437-43 Ludlow St,. Phila.

FINANCING (BUILDING)
mercial Advance Corp., 1011 Chestnut St., Phila.
rtgage Extension Corp.,.1011 Chestnut St., Phila.

FIREPROOFING.
rce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES.
E. Lingo & Son .....Camden, N. J.

FLOOR HARDENER.
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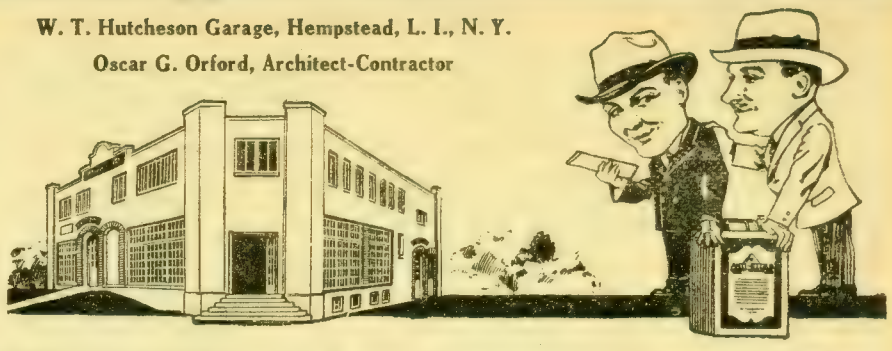
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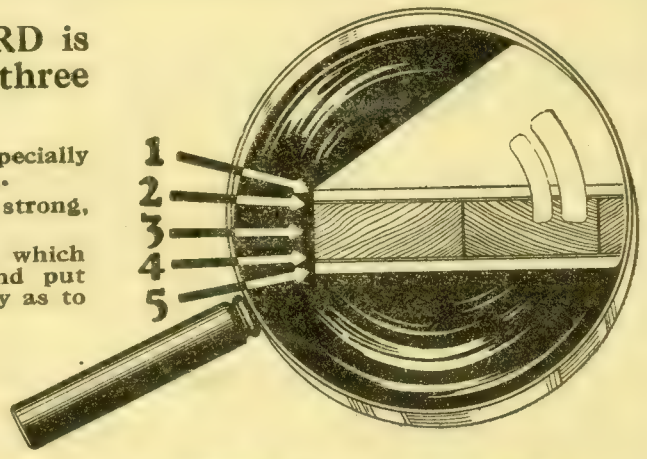
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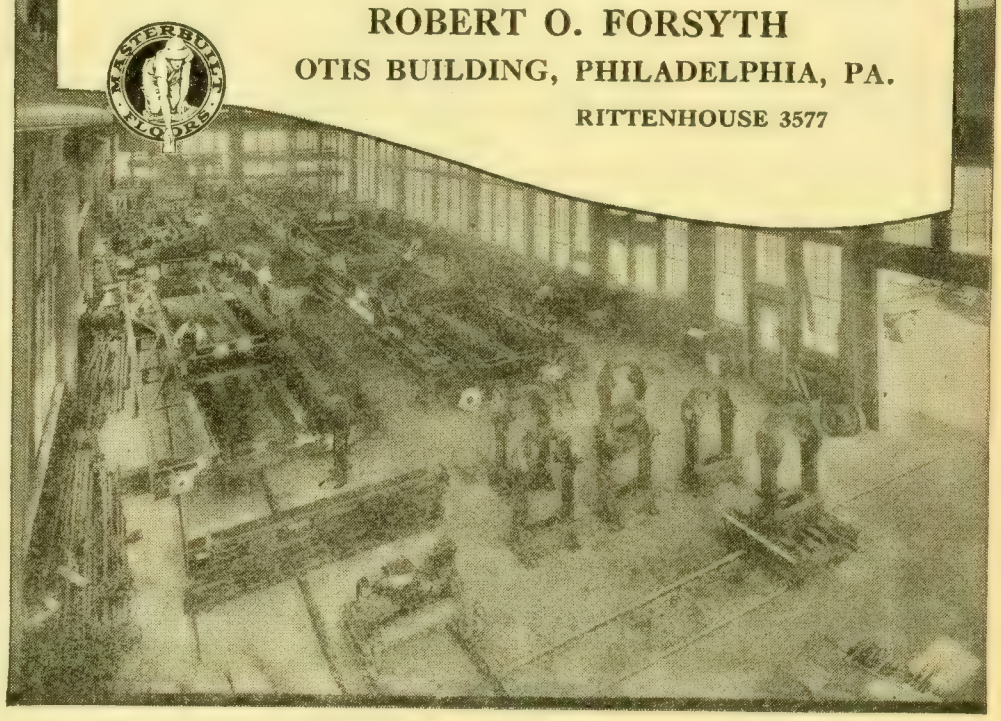
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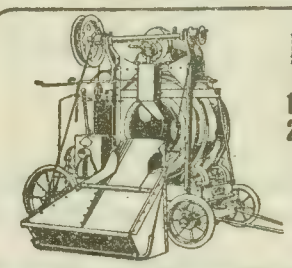
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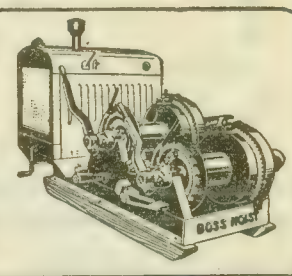
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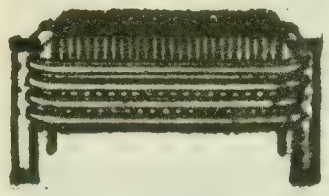
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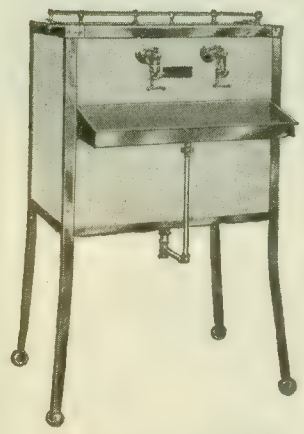
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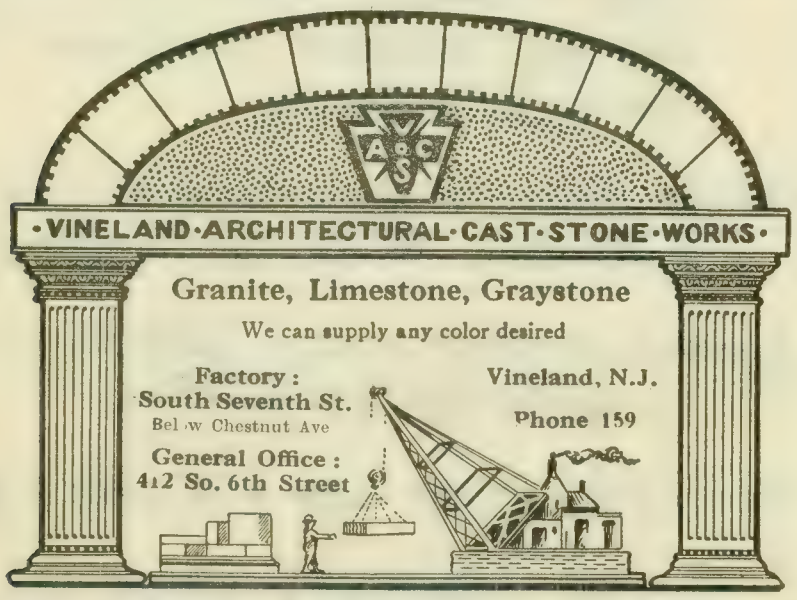
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As The Editor Sees It

CONSERVATION OF EYESIGHT

Much study and energy has been put to good account to provide efficient illumination of buildings by electricity. Most any effect is now available, but such illumination is always provided by artificial means.

Daylight is unquestionably recognized as the superior illumination for general purposes, and there is during daylight hours, so to speak, an unlimited amount of daylight available. But, things free and abundant are seldom recognized in their true worth.

Few have considered the possibility of making this daylight available to its fullest and most beneficial extent inside of the building. Of course some have considered it, and we see efforts being made in factory construction and in better arrangements of school windows, to get more daylight into the building, but unfortunately this has presented more serious problems. The wide variation of the intensity of light makes it necessary to provide a means of correction, so the variation of intensity of light on a dull day and that on a bright day are held within reasonable limits.

Working in this direction, some people have used awnings. Now awnings are too well known to need any discussion here. They provide certain comforts and conveniences that compel us to recognize their usefulness, but they exclude about two-thirds of the available light from entering the building. They are expensive, both in cost and in constant repairs. Where left to the public to operate they soon become very dilapidated and are a menace on a building. First because of a fire hazard which can be caused by a carelessly thrown match or cigarette. Second, from the possibility of being blown from their fasteners during a high wind and carried down on the street among pedestrians.

Venetian Blinds have been used to offset these disadvantages, and would seem to be a step further in the right direction. However, the Venetian Blind at its best can only deflect the light and that, in a rather inefficient manner. The Venetian Blind was originally designed for use in Venice to deflect the glare in the water toward the lower part of the room, very little consideration being given to the exclusion of the radiant heat of the sun. The Venetian Blind is also expensive both in cost, and in upkeep.

A third means, used extensively for factory buildings is to frost or paint the window glass. This for three very definite reasons is the worst thing to do, for a painted of frosted glass excludes a larger proportion of light on a dark day than it does on a bright day, and it is on a dark day that one needs all the light to be had. When the sun is on a painted or frosted glass, it does not diffuse the light efficiently, for pronounced glare is always apparent. A painted or frosted glass surface becomes an absorber of heat, and because of this actually contributes to conduct the radiant heat of the sun into such buildings when it would be most desirable to exclude it.

But before we go into such discussion further permit us by means of the following to show how important proper lighting is in regards to conservation of eyesight.

Conservation of Eyesight is a highly important subject and one which has attracted much investigation and research during the past few years by various organizations:

U. S. Bureau of Education, Dept. of Interior, Nat'l Committee for Prevention of Blindness, Eyesight Conservation

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Council of America. The Peabody College of Nashville, Tenn., New York Illuminating Engineering Society, American Inst. of Architects of New York, and by many of the laboratories and research societies and institutions, eight societies in the State of New York alone.

As an indication of the accomplishment of this work, taking Boston for an example, the government report shows that the impairment of vision of school pupils was 31.50 per cent in 1907 and reduced to 12.86 per cent in 1916. The government also reports that 10 per cent of the rejects in the recent draft was due to impaired eyesight, which does not include minor defects which could be corrected with proper glasses.

We have before us a vast array of these digests from which we will attempt only a brief summary as follows:

The opinion is practically unanimous that the results are from the protracted and unhygienic use of the eyes in near work because of inadequate light during the period of their school life, the most prominent symptoms being a progressive development of near sight.

That the great majority of children enter the schools with a normal vision which is quickly impaired if the conditions of the school are improper, and that the number of short-sighted pupils is increased from class to class. The report of the Bureau of Education shows that the vision of 25 per cent of the pupils becomes defective.

An examination by the Department of the Interior of 1,000 school children from 5 to 18 years discloses the following percentage of refractive errors:

Hypermetropia (long sight)	36.2
Compound hypermetropic astigmatism	44.0
Emetropia	13.9
Myopia (short sight)	1.4
Compound myopic stigmatism	1.0

Refractive errors usually found in school children are hypermetropia and compound myopic astigmatism, the most common condition in early life being hypermetropia. Myopia conditions are seldom found in school entrants but develop with the advance in grades, so that it preponderates among children of the higher grades.

Concentration on near or far objects, as the case may be, by a near or far-sighted child causes eye strain, and if not relieved by proper lenses tends eventually toward blindness.

These digests devote much space to corrective measures—the color of the walls and woodwork, the absence of varnished surfaces and glazed paper, the lighting of blackboards and particularly to the diffusion of lighting.

They are unanimous in their recommendations that the windows should extend to about 6 inches of the ceiling and from 3 to 4 feet from the floor, because the light should always come from the upper part of the windows. They also agree as to the proper shading of the windows—a translucent window shade which will soften the glare when the sun is on the window, a shade which will operate from the top or the bottom and that the light should always be diffused from the upper part of the window. The Bureau of Education puts it tersely in these words: "The only entirely satisfactory device is the adjustable fixture whereby any desired part of the window can be covered."

To get the best results for illuminating buildings by the outdoor light the window glass should be as transparent as possible. There should be provided a fixture on the window that is adjustable to cover any area of the window necessary to reduce the light to an agreeable amount. This fixture should provide a means of diffusing the light to prevent glare. It should prevent the radiant heat of the sun from being communicated into the room. Since there are just three ways in which heat

(Continued on page 500)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Manse, Chelten and Limekiln pike, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Covenant Presbyterian Church, N. W. Hathaway, 20th and Chelten avenue, Phila. Stone, brick, stucco, 2½ stories, 28x52 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Ready for bids in one week.

Garage, Office and Store, 2514-16 West Hagert street, Philadelphia. Architect, Oliver Randolph Parry, 1524 Sansom street, Philadelphia. Owner, Harry Connor, on premises. Brick, 2 and 1 stories, 40x112½ feet, slag roof, concrete and pine floors, electric light, metal skylights, plate glass. Owner will build.

Pavilion, Sesqui Grounds, Philadelphia. Architects, Stanley Wilson, 247 Park avenue, and P. B. Laville, 505 Fifth avenue, New York. Owners, Argentine Republic, care of architects. Metal lath, stucco, steel, 1 story, 153x70 feet, rubberoid roof, tile, mastic and pine floors, painting, hardware, plumbing, electric light, rolled steel skylights, iron stairs, ornamental iron work, artificial stone. Architects taking bids due as soon as possible.

Store and Loft Building, 242 Arch street, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, H. Chervin, 1708 Ruscomb street, Philadelphia. Brick ,cast stone, 3 stories, 19x51 feet, composition roof, cement and pine floors, hot water heat, electric light, tile work. Owner taking general bids.

Building, Ferry Road Playground, Northeast Corner Stillman and Christian streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Estate of Richard Smith, deceased, Fidelity Trust Co., Trustee, 325 Chestnut street, Philadelphia. Brick, cut stone, steel reinforced concrete, 2 stories and basement, 107x53 feet ,slate roof, cement and pine floors, steam heat, electric light, tile and marble work, metal lath, bond, ornamental iron work. Architect taking bids due August 6th.

Theatre, Thirty-first and Diamond streets, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owner, Louis Kapner, 213 South Broad street, Philadelphia. Brick, concrete, terra cotta, 1 story and basement, 80x100 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile and marble work. Architect taking bids due August 16th.

Mint Building (alts.), Sixteenth and Spring Garden, Philadelphia. Architect, James A. Wetmore, Washington, D. C. Owners, Treasury Department, Washington, D. C. New roof covering. Owners taking bids due August 12th, 3 P. M. Plans can be secured from Custodian on site.

New Church and Basement (alts.), Southwest Corner Price and Ardleigh streets, Philadelphia. Architect, Paul Monaghan, 1713 Sansom street, Philadelphia. Owners, Church of the Immaculate Conception, Rev. M. J. Higgins, on premises. Stone, cut stone, granite, brick, reinforced concrete, steel, 1 story and balcony, 244x150 feet, slag and Spanish tile roof, cement, oak and pine floors, hollow tile, safety treads, waterproofing, ornamental iron work, iron stairs, bond, copper skylights, hollow metal sash, tile and marble work, metal lath, electric light, area gratings, demolition, flagstone, limestone, fireproofing, plumbing. Architect taking bids due August 11th.

Apartment House, Tenth and Clinton streets, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Louis Lande, on premises. Brick, cut stone, steel, 12 stories and basement, 40x115 feet, slag roof, oak, pine and cement floors, elevators, steam heat, electric light, metal lath, tile work, rolled steel sash, bond, ornamental iron work. Architect taking bids due as soon as possible.

Residences (50), North and South side Aldine street, East of Leon street, $251,000. Architect, private plans. Owner, Harry Bobb, 6232 Cedar avenue, Philadelphia. Brick, 2 stories, 16x27 feet, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Apartment House, Northeast Corner Sixty-third and Lebanon avenue, Philadelphia, $285,000. Architect, Guy B. Johnson, 237 North Sixteenth street, Philadelphia. Owners, Windemere Construction Co., on premises. Brick, 4 stories, 126x115 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile work. Permit issued.

Residences (2), South side Magee street, East of Bingham street, $5,000 each. Architect, private plans. Owner, Abraham Forman, 4941 North Eighth street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Moving Picture Theatre, Stores and Offices, Fifty-fourth and Wynnefield avenue, Philadelphia, $168,000. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Co. of America, 1916 Race street, Philadelphia. Brick, steel, theatre, 1 story, 158x82 feet, stores and offices, 2 stories, 34x63 feet. Permit issued.

Residences (5), East side Newhall street, South of Wyoming avenue, $6,000 each. Architect, private plans. Owner, James Kincaid, 2206 Fitzwater street, Philadelphia. Brick, 2 stories, 16x65 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Convent (alts.), Southeast Corner Tucker and Memphis streets, $2,400. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Ann's Parish, Lehigh and Memphis streets, Philadelphia. General alteration. Permit issued.

Residences (2), 5445-47 Rising Sun avenue, Philadelphia, $10,000 total. Architect, private plans. Owner, Alfred H. King, 2851 North Marshall street, Philadelphia. Brick, 2 stories, 18x49 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residence, North side Flamingo street, West of Silverwood street, $9,000. Architect, private plans. Owner, A. G. Wilson, Jr., 458 Flamingo street, Philadelphia. Frame, 2 stories, 20x28 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residence, 431 East Mechanic street, Philadelphia, $5,000. Architect, private plans. Owner, Joseph Alvaro, 424 East Haines street, Philadelphia. Brick, 2 stories, 24x52 feet, hot water heating, electric lighting. Permit issued.

Residences (6), South side Theodore street, West of Sixtieth street, $3,500 each. Architect, private plans. Owner, Thomas Cockerill, 2242 St. James Terrace, Philadelphia. Brick, 2 stories, 16x29 feet, 12x8 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Garage, West side Pulaski avenue, South of Milne street. $2,000. Architect, private plans. Owner, Charles B. Maguire, Oak Lane Trust Building, Philadelphia. Stone, 1 story, 62x21 feet, cement floors, electric work. Permit issued.

Residences (9), East side Marsden street, South of Cottman street, $40,500. Architect, private plans. Owner, A. W. Maxwell, Cottman street and Torresdale avenue, Philadelphia. Brick, 2 stories, 20x28 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (5), 3367-69-71-73-75 Belgrade street, $25,000. Architect, private plans. Owner, Stefan Prekykowski, 3416 Richmond street, Philadelphia. Brick, 2 stories, 16x29 feet, 13x13 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (4), East side Manayunk avenue, South of Kingsley street, $6,000 each. Architect, private plans. Owners, Manayunk Coal & Lumber Co., 6736 Ridge avenue, Phil-

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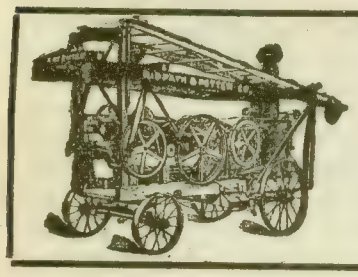
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adelphia. Brick, 2 stories, 20x33 feet, hardwood and pine floors, slag roof, hot water heat, electri clight. Permit issued.

Residences (6), 7763-73 Hasbrook avenue, Philadelphia, $5,000 each. Architect, private plans. Owners, Betz Brothers, 6915 Rising Sun avenue, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (4), Edgemont street, North of Westmoreland street, $3,500 each. Architect, private plans. Owner, Walter Rybas, 3336 Edgemont street, Philadelphia. Brick, 2 stories, 16x32 feet, 12x12 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Workshop, 4515 Paul street (rear), Philadelphia, $3,000. Architect, private plans. Owners, Buzby Cont. Co., 1658 Unity street, Philadelphia. Brick, 2 stories, 24x40 feet, slag roof, electric work. Permit issued.

Residences and Garages (72), Sheffield and Leon Streets, Philadelphia. Architect, private plans. Owner, Edward J. Rush, 1116 S. Fifty-fourth street, Philadelphia. Brick, 16x47 feet and 16x28 feet, 12x8 feet, slag roof, hardwood and pine floors, electric light. Permit issued.

Residence, west side Watson Street, north of Maple street, Philadelphia, $4,500. Architect, private plans. Owner, Benny Cassolia, 7601 Oxford street, Philadelphia. Stone, 1 story, 30x42 feet, electric light. Permit issued.

Residences (2), south side Eastwickq avenue, east of Eighty-sixth street, $4,000 each. Architect, private plans. Owner, Jos. Espisito, 2819 South Eighty-fourth street, Philadelphia. Brick, 2 stories, 16x45 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Sewer Work, Philadelphia. Owner, Department of Public Work, Bureau of Highways, 21 City Hall. Low bidders: Schedule A: Wissahickon Avenue, Fairmount Park, etc. J. J. McHugh, 117 Race street, Philadelphia, $12,457.09. Schedule B, Wingohocking Sewer to Palethorpe Street, J. Lombardi, Lincoln Building, $22,000. Tacony Creek, Intercepting Sewer, J. Lombardi, Lincoln Building, Philadelphia, $45,576.

Paving, Broad Street, Montgomery to Cumberland Streets, Philadelphia. Owner, Department of City Transit, 1211 Chestnut St., Philadelphia. Certified check 5% of bid. Owner taking bids due Aug. 5th, 11 A. M. (S. T.)

Grading, Curbing, curbing sidewalks and sewer connections, Water Tower Recreation Center, Chestnut Hill, Pa. Architect (city), John T. Molitor, 1315 Walnut street, Philadelphia. Owner, Department of Public Welfare, Bureau of Recreation, 595 City Hall. Also grading and surfacing Seger Recreation Center, 11th and Lombard Streets, Philadelphia. Certified check 5% of bid. Owner taking bids due August 11th, 11 A. M. (S. T.)

Residence (alts. and add.), Chestnut Hill, Pa. Architect, Thos. W. Sears, 1600 Walnut street, Philadelphia. Owner, Mr. C. A. Porter, Jr., on premises. Stone, 1 story, slate roof, carpentry and millwork, plastering, painting and glazing, hardware, ornamental iron work. Architect taking bids due Aug. 6th.

Bank and Office Building, Broad, Buttonwood and Nectarine streets, Philadelphia. Architect not yet selected. Owner, Laird Schober and Company, J. C. McKeon, Twenty-second and Market streets, Philadelphia. Brick, steel, concrete, 16 stories, 90x231 feet, size of lot. Selection of Architect will be made in October.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, Fiftieth and Paschall avenue, Philadelphia. Engineers, William F. Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia. Owner, name withheld. Brick, steel, 1 story, 80x420 feet, gypsum, slag roof, cement floors, excavation, electric light. Plans in progress. Contract awarded William Koelle & Co., Twenty-sixth and Oxford streets, Philadelphia, who will be ready for sub-bids in two weeks.

Church and Sunday School, Northeast Corner Broad and Grange avenue, Philadelphia, $90,000. Architects, Suckert & Co., 1420 Chestnut street, Philadelphia. Owners, Heidelberg Reformed Church, on premises. Stone, cut stone, steel, 1 story, 2 stories and basement, 110x75 feet, built-up roof, asbestos shingle and slate roof, cement and pine floors, plumbing, shoring, ornamental iron work, demolition, cast stone, steel toilet partitions,

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metal lath, granite, limestone, area gratings, steam heat, electric light, tile work, rolled steel sash, bond, ornamental iron work. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

Swimming Pool, Ridge avenue and Ferry road, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Burea uof Recreation, City of Philadelphia, 595 City Hall. Contract awarded J. F. Cody, 4301 Ashburner street, Philadelphia, $29,934. Plumbing, Joseph Hart, 1945 North Croskey street, Philadelphia, $3,045. Electric, H. S. Mitchell, 1337 McFerran street, Philadelphia, $1,185.

Church (alts. and add.), Broad street below Tioga street, Philadelphia, $17,000. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Tioga Baptist Church, on premises. Plumbing, brick work, carpentry and mill work, painting and glazing, plastering, electric light, ornamental iron work. Contract awarded to Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Building (alts.), 10-14 North Delaware avenue, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard Estate, Stephen Girard Building, Philadelphia. Steel, carpentry, concrete, painting, electric work, plastering. Contract awarded F. W. Van Loon, Perry Building, Philadelphia.

Apartment House, 230 East Sharpnack street, Philadelphia, $15,000. Architect, C. Henry Wilson, 1925 North Twentieth street, Philadelphia. Owner, William Byrd, 141 East Chelten avenue, Philadelphia. Brick, 2 stories, 20x100 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to John Romano, 414 East Bringhurst street, Philadelphia.

Residence and Store (add. and alts.), 2122-26 East Chelten avenue, $10,000. Architect, private plans. Owner, Paul A. Rinck, 3617 North Broad street, Philadelphia. Brick, 2 stories add., 20x16 feet, general alterations. Contract awarded to A. N. Tatro & Co,. 3617 North Broad street.

Machine Shop (repairs), Southwest Corner Sixty-second and Media streets, $8,000. Architect, private plans. Owners, Chambers Brothers Co., Fifty-secon dand Media streets, Philadelphia. General fire repairs. Contract awarded to A. Raymond Raff Co., 1635 Thompson street.

Store and Storage (add. and alts.), Southwest Corner Twenty-ninth and Master streets. Architect, private plans. Owner, John Williams, 1340 North Twenty-ninth street, Philadelphia. General alterations and addition. Contract awarded to I. Alterman, 5400 B street, Philadelphia.

Residences (2), 3573-75 Janney street, Philadelphia, $2,000 each. Architect, private plans. Owner, Joseph McKinney, 3571 Witte street, Philadelphia. Brick, 2 stories, 14 feet 6 inches x 25 feet, pine floors, hot air heat, electric work. Contract awarded to George McKinney, 2254 East Tioga street, Philadelphia.

Residence and Store (alts.), 2001 North Broad street, Philadelphia, $4,000. Architect, private plans. Owner, Herbert L. Nelke, 1016 Seventieth avenue, Philadelphia. General alterations. Contract awarded to Hugh Hazlett & Son, 1701 North Twentieth street, Philadelphia.

Store and Residence (alts.), 2201-03 South street, Philadelphia, $2,500 each. Architect, private plans. Owner, Morris Brenner, Twenty-second and South streets, Philadelphia. General alterations. Contract awarded to Benjamin A. Kaplan, 301 South Eleventh street, Philadelphia.

Grandstand, Southwest Corner Manheim and Morris streets, Philadelphia, $10,000. Architect, private plans. Owners, Germantown Cricket Club, on premises. Frame. Contract awarded to Roydhouse-Arey Co., 1209 Fidelity Building, Philadelphia.

Laboratory (add.), West side Frankford Creek, North of Bridge street, $5,000. Architect, private plans. Owners, Charles Lennig & Co., Bridesburg, Pa. Brick, 1 story add., 30x80 feet. Contract awarded to Rumpf & Kohemeyer, 35 38 North Thirteenth street, Philadelphia.

Residence and Store (add.), 5837 Ridge avenue, Philadelphia, $4,200. Architect, private plans. Owner, J. Daubert, 486 Walnut street, Philadelphia. Brick, 1 story add., 31x30 feet, slag roof, pine floors. Contract awarded to H. F. Brown, 6100 Ridge avenue, Philadelphia.

Residences (add. and alts.), 3927 Chestnut street, Philadelphia, $10,000. Owners, Chris. J. Kelly, 5401 Chestnut street, Philadelphia. Brick, 1 story add., 20x76 feet, general alterations. Contract awarded to LeRoy K. Smith, Forty-first and Chester avenue, Philadelphia.

Factory, Southeast Corner Edmund and Hellerman streets, Philadelphia, $9,000. Architect, private plans. Owners, Sunrise Hosiery Co., on premises. Brick, 1 story, 32x92 feet. Contract awarded to Henry Habring, Newportville, Pa.

Club (add.), 325 West Susquehanna avenue, Philadelphia, $4,000. Owners, American Legion Post No. 189, on premises. Brick, 3 stories add., 17x25 feet. Contract awarded to George Grambick, 1439 North Eighth street, Philadelphia.

Garage, Wayne avenue and Hortter street, Philadelphia, $4,000. Architect, Edgar A. Wightman, Bankers' Trust Building, Philadelphia. Owner, Edward T. Flood, on premises. Stone, 2 stories, 23x26 feet, cement floors, ornamental iron, electric work. Contract awarded to Albert Zellfelder, 1324 Walnut street, Philadelphia.

Gas Station, Southwest Corner Greene street and Queen Lane, Philadelphia, $3,000. Owners, Atlantic Refining Co., 260 South Broad street, Philadelphia. Brick, 1 story,



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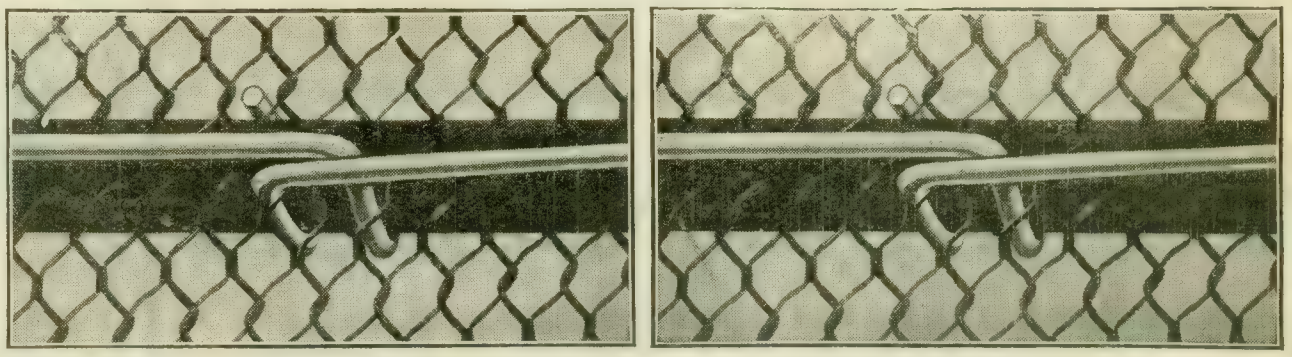
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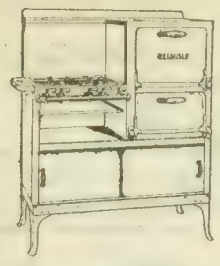
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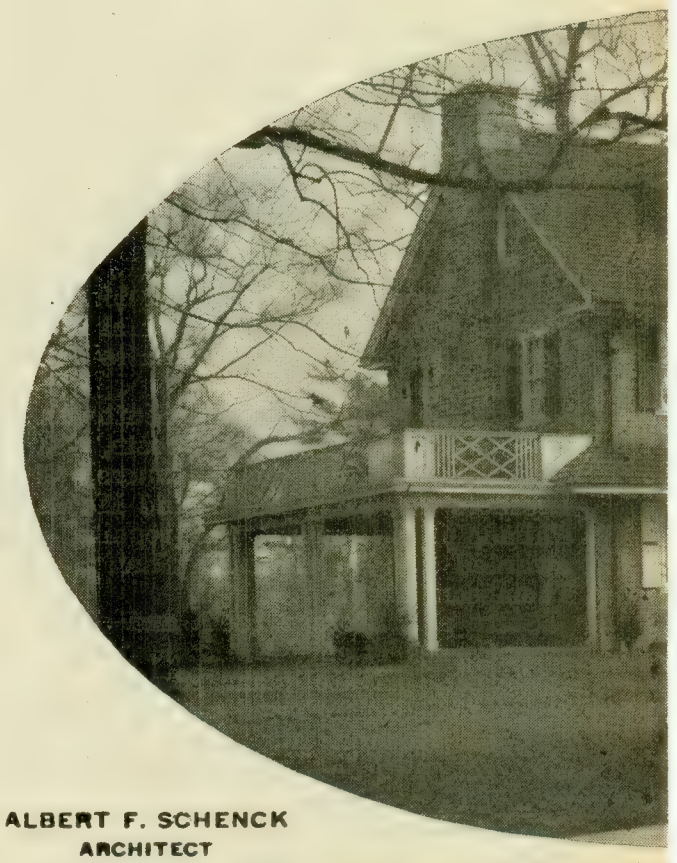
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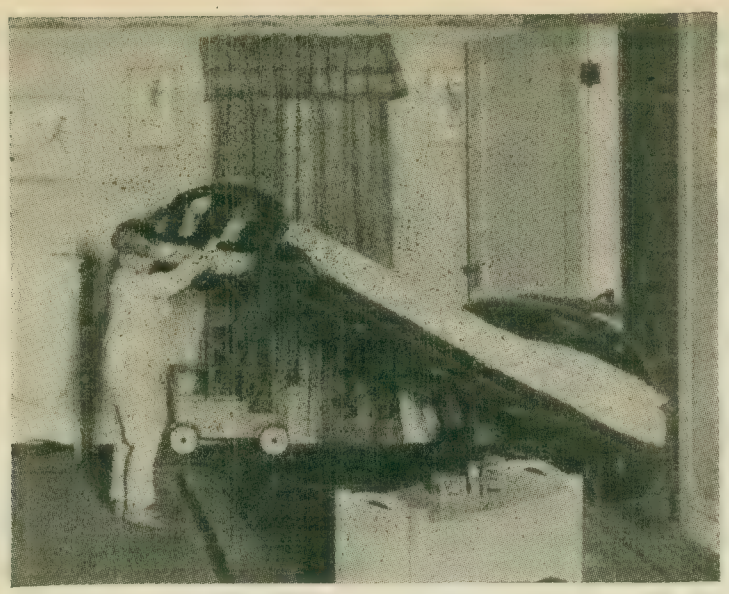
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Residence (alts.), 6715 Emlen street, Philadelphia, $2,500. Architect, private plans. Owner, H. T. Paist, on premises. General alterations. Contract awarded to McNeill Const. Co., 1505 Race street, Philadelphia.

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Contract awarded to M. W. Young, 2037 North Sixty-third street, Philadelphia.

Store and Storage (alts.), Southeast Corner Fourth and South streets, $7,500. Architect, private plans. Owner, A. Cohen, 536 South street, Philadelphia. General alterations. Contract awarded to M. Kuzinsky, 2627 South Sixth street, Philadelphia.

Residence (add. and alts.), 134 West Coulter street, Philadelphia, $5,000. Architect, private plans. Owner, Chas. B. Doak, on premises. Brick, 3 stories addition, 27x15 feet, general alterations. Contract awarded to Andrew E. Weiler, 2754 North Twelfth street, Philadelphia.

Residence, South side Fuller street, west of Frontenac street, $5,000. Architect, private plans. Owner, Philip A. Egert, 228 Machson street, Philadelphia. Frame, 1 story, 37x27 feet, pine floors, shingle roof, electric work. Contract awarded to Henry E. Durst, Rhawn and Castor Road, Philadelphia.

Apartment (alts.), 1229 North Seventh St., Philadelphia, $2500. Architect, private plans. Owner, M. C. White, 2216 Ridge Avenue, Philadelphia. General alterations. Contract awarded to Hugh Hazlett & Son, 1701 North Twentieth street, Philadelphia.

Miscellaneous Work, Philadelphia. Owner, Department of Public Work, Bureau of City Property, 216 City Hall. Contract awarded on Aramingo Square Park, work to John J. Devlin, Jr., Hancock and Thompson Streets, Philadelphia, $1,355.

Pennsylvania Construction News

Bridge across Naylor's Run, Manoa Road, Llanerch, Pa. County Engineer, S. C. Hollister, Media, Pa. Owner, Commissioners, Haverford Township, H. A. Firtschman, Oakmont, Pa. Deposit $5. refunded. Certified check $1.0. Owner taking bids due August 16, 7.30 P. M. (D. S. T.)

Church, Highland Park, Pa. Architect, Geo. E. Savage, Witherspoon Building, Philadelphia. Owner, Calvary Presbyterian Church, H. G. Carson, Chairman of Building Committee, Rev. A. B. Dickerson, Highland Park. Stone, 1½ stories, basement, steam heat, electric light, metal lath, slate roof, pine floors, kitchen equipment. Owner will build.

Clearfield County Home Building (alts. and add.), Smithmills, Pa. Architect, G. S. Idell, 1510 Chestnut street, Philadelphia. Owner, care of architect. Preliminary plans in progress.

Post Office Building (alts. and add.), Conshohocken, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, Anthony Talone, Conshohocken, Pa. Rear addition, brick, 1 story, 19x31 feet, slag roof, general repairs, mill work, painting, plastering, plumbing. Plans in progress.

Store and Apartments (2), Green street, Lansdale, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, Dr. C. H. William, Lansdale, Pa. Brick, 2 stories, 18x40 feet, 18x50 feet, slag roof, pine and hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Gymnasium, Indiana, Pa., $200,000. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Indiana State Normal Street, William Keith, Indiana, Pa. Fireproof. Sketches in progress.

School, Dallastown, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owners, St. Joseph's Roman Catholic Church, Father Magee, Dallastown, Pa. Brick, steel, 2 stories, 86x96 feet, slag roof, maple floors (heating, plumbing and electric reserved). Revised plans in progress.

Church (repairs), Pottstown, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Trinity Reformed Church, Rev. J. H. Smith, Pottstown, Pa. General fire repairs. Plans in progress.

Residence, Penn Side, Reading, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owner, Fred Lang, care of architect. Cinder block and stucco, 2½ stories, 28x32 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Revised plans in progress.

Church, State College, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, State College Baptist Church, State College, Pa. Revised plans in progress.

Country Club (alts. and add.), Lancaster, Pa. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Lancaster County Country Club, Lancaster, Pa. Preliminary plans in progress.

College Building, Meadville, Pa. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Allegheny College, Meadville, Pa. Plans in progress.

Moving Picture Theatre, Media, Pa. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owner, name withheld. Brick, steel, stone trim, capacity 1,000, slag roof, cement floors. Preliminary plans in progress.

Store and Apartment, Fifth street, between Edgemont and Bridge, Chester, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, E. Swimmer, Chester, Pa. Brick, limestone, 3 stories, 70x80 feet, slag roof, hardwood floors, electric light, marble and terrazzo work, ornamental iron work, phones. Plans about completed.

Parochial School, Conshohocken, Pa. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, Parish of St. Mary's, Rev. John Mioducew, Conshohocken, Pa. Brick, 2 stories, 35x80 feet (plumbing, heating and electric reserved), slag roof, maple floors, fire escapes, ventilators, ornamental iron work. Plans completed. Ready for bids in a few days.

Residence and Two-Car Garage, Phoenixville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, John R. Yost, 230 Second avenue, Phoenixville, Pa.

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Stores (4) and Apartments, Ardmore, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, W. W. Crawford, Wayne, Pa. Brick, steel, 2 stories, slag roof, pine floors, hot water heat, electric light. Revised plans in progress. Ready for bids (new) in a week.

Stores (alts.), Telford, Pa. Architect, M. B. Bean, Lansdale, Pa. Owners, D. Daub and H. Swartley, Telford, Pa. Brick, slag roof, plumbing, plate glass, tile work, general alterations. Owners will sublet.

Hospital (alts. and add.), Third and Brigg streets, Harrisburg, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owner, Dr. G. W. Hartman, on premises. Brick, 4 stories, 40x132 feet, slag roof, composition floors, heating extension, electric light, tile and marble. Architects ready for bids.

School (alts.), Hall, Gymnasium and Auditorium, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, St. Mary's Roman Catholic Church, Rev. F. J. Breckel, York, Pa. Brick, steel, 2 stories and basement, 118x56 feet, flat roof, cement and hardwood floors, hollow tile, roof ventilators, metal ceilings, tile and marble, electric work. Architect ready for bids.

High School, West York, Pa. Architects, Witman & Royer, 47 East Market street, York, Pa. Owners, West York School Board, care of architects. Steel, brick, fireproof, 2 stories and basement, 174x60 feet, composition roof, maple and composition floors, hollow tile, safety treads, roof ventilators, ornamental iron, steel sash, metal lath (heating, plumbing and electric separate). Architects about ready for bids.

High School, Ephrata, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Ephrata School Board, J. M. Baum, secretary, Ephrata, Pa. Brick, steel, 1 story and basement, 150x150 feet, built-up roof, maple floors, hollow tile, safety treads, roof ventilators, iron stairs, bond, steel sash and skylights, tile and marble, metal lath (heating, plumbing and electric separate). Ready for bids in ten days.

Y. M. C. A. Building, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Y. M. C. A., care of architect. Fireproof, 4 stories, 69x60 feet, built-up roof, hardwood floors, hollow tile, roof ventilators, ornamental iron, iron stairs, metal lath, tile and marble, electric light. Architect will be ready for bids in ten days.

Grade School, Carlisle, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Carlisle School Board, Thomas Vale, secretary, Carlisle, Pa. Steel, fireproof, 2 stories and basement, 119x80 feet, slate roof, maple floors, hollow tile, safety treads, roof ventilators, metal weather strip, dampproofing, ornamental iron, iron stairs, bond, steel sash, metal lath (heating, plumbing and electric separate). Architects taking bids.

SundaySchool Building, Jenkintown, Pa. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Grace Presbyterian Church, Jenkintown, Pa. Stone, cast stone, concrete steel, 1 story and balcony and basement, 97x59 feet, green slate and slag roof, linoleum, pine and cement floors, plumbing, steam heat, electric light, metal lath, rolled steel sash, marble work, bond, ornamental iron work, demolition. metal partitions, vapor heating, concrete block, celotex, painting and glazing. Architect taking bids due August 10th.

Junior High School, Mansfield, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa, Owners, Mansfield School Board, care of architects. Semi-fireproof, 2 stories, 90x175 feet, built-up roof, pine floors, safety treads, roof ventilators (heating, plumbing and electric separate). Architects taking bids.

School, Thorndale, Pa. Architects, Scholl & Richardson, Fifth and Walnut streets, Reading, Pa. Owners, Thorndale School Board, Margaret Wood, president, Thorndale. Brick, steel, 1 story, 8 rooms, slate roof, maple floors (heating, plumbing and electric separate), architectural iron work, cut stone. Architects taking bids due August 16th.

Stores and Apartment Building, Mahoney City, Pa. Architect, William H. Lee, Schaff Building, Philadelphia. Owners, Knapp Estate, Mahoney City, Pa. Architect taking bids due August 10th.

Chapel, West Fairview, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, Rt. Rev. P. R. McDevitt, 111 State street, Harrisburg, Pa. Timber, 1 story, 40x80 feet, shingle roof, pine floors, steam heat, electric light. Architect taking bids due August 9th.

School Unit No. 3, Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Muhlenberg Township School Board, Temple, Pa. Owners taking bids on heating, plumbing and general interior finish due August 5th.

Grade School, Sharon Hill, Pa. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Sharon Hill School Board, care of architect. Semi-fireproof, 2 stories, 6 rooms, built-up roof, pine floors (heating and plumbing, electric work reserved). Architect taking revised bids due August 12th.

Theatre, Lewistown, Pa. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owner, Cohen, Lewistown, Pa. Brick, steel, concrete. Architects taking bids due August 7th.

Women's Club, Kennett Square, Pa. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owners, Women's Club, Kennett Square, Pa. Stone, 1 and 2 stories, 36x75 feet, shingle roof, maple and pine floors, steam heat, electric light. Architects taking bids.

Fire House and Hall, Springfield, Delaware County, Pa. Architect, J. J. Carroll, 1619 Chestnut street, Philadelphia. Owners, Springfield Fire Co., M. S. Pancoast, Springfield, Pa. Architect taking bids due August 9th.

Steam Distributing System, Laurelton, Pa. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Laurelton State Village, Laurelton, Pa. Owners taking bids due August 7th, 11 A. M.

Meeting House, State College, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, State College, State College, Pa. Architect taking bids due August 11th.

School, Forrest avenue, Ambler, Pa. Ar-

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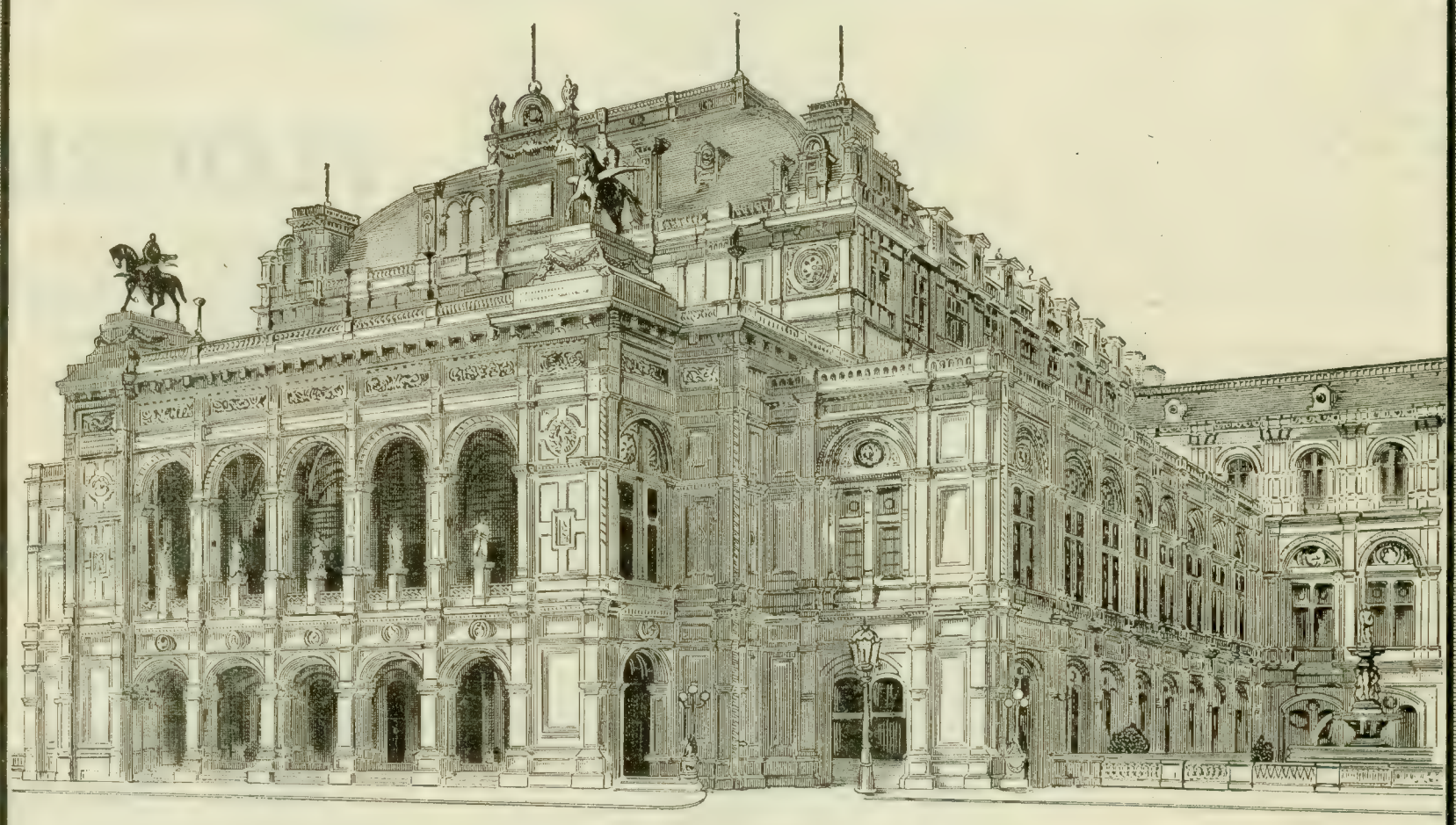
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chitect, Watson K. Phillips, 215 South Fifth street, Philadelphia. Owners, Board of Education, C. Y. Styer, Ambler, Pa. Low bidders: Tourison & Co., Germantown and Queen lane, $50,000; H. C. Shallcross, Gratersford, Pa., $60,500. Electric, Marvin Riley, Ambler, Pa., $1,372.25. Plumbing, J. M. Kirk, Ambler, Pa., $4,138. Heating, J. Borden, 637 North Nineteenth street, Philadelphia, $8,690.

Road Work, Pennsylvania. Owners, Pennsflvania Department of Highways, Harrisburg, Pa. Low bidders on work opened July 27th:

Venango County, R-75, A-3677, Richland and Rockland Townships, 23,403 feet. One course reinforced concrete. Russell Brothers, Youngstown, Ohio, $170,094.40.

Northumberland County, R336, A-3724, Little Mahanoy and Jackson Townships, 22,335 feet. One course reinforced concrete. William M. Moser, Mt. Carmel, Pa., $168,822.26.

Erie County, R-85, A-3822, A-4128, Conneaut and Springfield Townships, 18,337 feet. One course reinforced concrete. Colonial Const. Co., Pittsburgh, Pa., $156,606.16.

Crawford County, R-295-447, A-4149, 4105, Summit and Summerhill Townships. One course reinforced concrete, 26,526 feet. Russell Brothers, Youngstown, Ohio, $190,227.80.

Berks County, R-157, Sec. 1, Muhlenberg Township, Temple Borough, 18,754 feet. One course reinforced concrete. William B. Sheidy, Wyomissing, Pa., $147,047.30.

Clearfield County, A-3974-3794A, Sandy Creek Township. Bridge. Milliron Const. Co., Dubois, Pa., $12,163.24.

Montgomery County, R-362, A-3916, Abington Township, 5,058 feet. One course reinforced concrete. Dalton Brothers, Paoli, Pa., $45,806.12.

Beaver County, R-243, Sec. 3-A, Ohio Township, Glasgow Borough, 4,534 feet. One course reinforced concrete. Allison-Harris Const. Co., East Liverpool, Ohio, $94,603.07.

Northampton County, A-3908, East Allen and Moore Townships, Chapman Borough, 22,443 feet. One course reinforced concrete. George H. Hardner, Allentown, Pa., $156,634.36.

Pennsylvania Contracts Awarded

Factory, Allentown, Pa. Architects, Jacoby and Everett, Commonwealth Building, Allentown, Pa. Owners, Jet Pharmacal Company, care of architects. Mill construction, 2 stories, 7x80 feet, built-up roof, maple floors, steam heat, electric light, steel sash, fire doors, roof ventilators. Contract awarded to Butz and Clader, Ainey Building, Allentown, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Allegheny County, Route 389, A-3944, Etna Borough, Shaley Township. One course reinforced concrete. $56,807.55. Contract awarded to M. O'Herron Company, Pittsburgh, Pa.

Blair County, A-3574, Logan Township, 8223 feet, One course reinforced concrete. $74,117.93. Contract awarded to Avery and Bailey, Philipsburg, Pa.

Carbon County, R-510, A-3773, 3774, Summit Hill Borough, Mauch Chunk and Mahoning Townships, 25,085 feet. One course reinforced concrete. $193,524.89. Contract awarded to Pratt and Moore, Inc., Hollidaysburg Pa.

Mercer County R-238 A-4102 Farrell Borough Hickory Township 3994 feet. One course reinforced concrete. $27,997.23. Contract awarded to Wm. McIntyre & Sons Co., Sharon, Pa.

Mission Chapel, State road and Turner avenue, Drexel Hill, $8,000. Owner, United Presbyterian Church, Drexel Hill, Pa. Frame, stucco, 1 story, 32x65 feet, shingle roof, wood floors, electric light. Contract awarded to T. Killough, Bywood, Pa.

Bank (add.), Collegeville, Pa. Architect, Oliver Randolph Parry, 1524 Sansom street, Philadelphia. Owners, Collegeville National Bank, Collegeville, Pa. Brick, stone, cut stone, reinforced concrete, steel, 2 stories and basement, 47x28 feet, slag roof, cement floors, hollow tile, painting and glazing, steam heat, electric light, metal lath, tile and marble work, rolled steel sash, vault and kalamein doors, bond, ornamental iron work, cabinet work, painting and glazing. Contract awarded H. C. Shallcross, Gratersford, Pa.

Church and School (add.), Scranton, Pa. Architects, Herbert L. Cain and A. N. Dobbins, 1709 Arch street, Philadelphia. Owners, Elm Park Methodist Episcopal Church, Rev. W. N. Gray, Scranton, Pa. Stone, brick, cut stone, steel, 3 stories and basement, 115x45 feet, wing 38x24 feet (plumbing, heating, electric fixtures reserved), slate roof, cement and composition and maple floors, waterproofing, dampproofing, ornamental iron work, iron stairs, bond, metal lath, tile work, electric light, demolition, granite, limestone, brass pipe, wrought iron pipe, bluestone. Contract awarded E. S. Williams, Scranton, Pa.

School (alts. and add.), Gradyville, Pa. Architect, Newton Flounders, Media, Pa. Owners, Board of Education, Gradyville, Delaware County, Pa. Stone, stucco, cut stone, limestone, 1 story and basement, 96x40 feet (plumbing, heating, electric separate), black slate roof, pine floors, metal lath, bond, ornamental iron work, bluestone, cold water painting. Contract awarded Hood & Gross, 1535 Chestnut street, Philadelphia. Electric, Harvey Hynes, Chester, Pa. Plumbing, George Major, Media, Pa. Heating, American Heating and Ventilating Co., Schaff Building, Philadelphia.

Store and Apartments, Ardmore, Pa., $160,000. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, H. J. Rittenhouse, Ardmore, Pa. Brick, steel, stucco, 1 story, 47x60 feet, slag and slate roof, pine and oak floors, cement floors, electric light. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Buildings (alts.) and New Building, Spring Mill, Montgomery County, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Walker Brothers, Spring Mills, Montgomery County, Pa. Brick, steel, reinforced concrete, 1 and 2 stories, 69x115 feet, slag roof, cement and maple floors, roof ventilators, terra cotta, coping, ornamental iron work, floor hardener, composition floors, bond, fire doors, rolled steel sash.

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Contract awarded Frank J. Schuler, Norristown, Pa.

Comfort Station, Pottsville, Pa. Architects, High & Huber, 230 North Sixth street, Reading, Pa. Owners, City of Pottsville, Mr. Schoen, City Hall, Pottsville, Pa. Concrete, steel, 1 story, terrazzo floors, tile and marble work. Contract awarded to Tamaqua Const. Co., Tamaqua, Pa.

Store and Office, Reading, Pa. Architect, Harry Maurer, 234 North Fifth street, Reading, Pa. Owner, J. M. Webster, 315 North Fourth street, Reading, Pa. Cinder block, 2 stories, 40x60 feet. Contract awarded to W. E. Spatz, American Gas Building, Reading, Pa.

Fire House (add. and alts.), Sixth and Calder streets, Harrisburg. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Goodwill Fire Co., I. H. Doutrich, on premises. Brick, 2 stories, 30x40 feet, slag roof, concrete floors, electric work. Contract awarded to J. Frank Saussaman, 12 North Market Square, Harrisburg, Pa.

Church and Sunday School, Fourth and Maclay streets, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, St. John's Reformed Church, care of architect. Brick, 3 stories, 26x95 feet, composition roof, maple floors, steam heat, electric light, steel sash. Contract awarded to C. W. Lady, 2210 Green street, Harrisburg, Pa.

School, Northampton, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Northampton School Board, Northampton, Pa. Contract for heating and ventilating awarded to American Heating & Ventilating Co., 1505 Race street, Philadelphia.

School (add.), Pottstown, Pa. Architects, Scholl & Richardson, Fifth and Walnut streets, Reading, Pa. Owners, School District Coventry Township, Mr. Hows, Pottstown, Pa. Brick, 2 stories, 50x60 feet, slate roof, pine floors, heating extension. Contract awarded to W. H. Wiand & Son, Pottstown, Pa.

Shop, Office and Store Room, foot of Highland avenue, Chester, Pa. Owners, Philadelphia Suburban Gas & Electric Co., J. D. Shalluck, Chester, Pa. Brick, steel, 2 stories, 37x170 feet, slag roof, cement floors. Contract awarded United Gas Improvement Cont. Co., Broad and Arch streets, Philadelphia.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Beaver County, A-3955, 4247, South Heights Borough, Hopewell Townshsip. Contract awarded to W. S. Morrison, New Brighton, Pa., $111,990.85.

Allegheny County, A-3757, Hampton and Indiana Townships, $119,248.30. Contract awarded to D. W. Challis & Sons, Inc., Sewickley, Pa.

Lawrence County, R-350, A-3688-3354, Wayne and Perry Townships, $92,812.60. Contract awarded to Young & Keesecker, Youngstown, Ohio.

Chester County, R-142, Sec. 3, East and West Whiteland Townshsip, $199,490.50. Contract awarded to Ambler-Davis Co., Harrison Building, Philadelphia.

New Jersey Construction News

Church (alts. and add.), Audubon, N. J. Architect, Bureau of Architects, Methodist-Episcopal Church, Seventeenth and Arch Sts., Philadelphia. Owner, Audubon M. E. Church, on premises. Brick, stone, cut stone, steel, 1 story and basement, 66x77 feet, built up asbestos, shingle roof, gum, cement floors, metal lath, hollow metal sash, kalamein doors. steel partitions, bluestone, iron gratings. Architect taking bids due August 9th.

Court House (alts. and add.), Mt. Holly, N. J. Architect, H. A. Ziegler, Drexel Building, Philadelphia. Owner, Burlington Co., Board of Chosen Freeholders, Camden, N. J. Low bidders: J. E. Kolster, Beverly, N. J., $1,795. R. C. Gale, Mt. Holly, N. J., $12,000.

Nurses' Homes (2), Trenton and Skillman, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, State House, Trenton. Brick, steel, 2 stories, 92x31 feet, slate roof, composition roof, tile (heating, plumbing and electric separate). Plans in progress.

Factory, 1490 Haddon avenue, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Heake & Son, care of architect. Brick, steel, concrete block, 2 stories, 40x100 feet, slag roof, pine floors, roof ventilators, electric light. Architect ready for bids.

School, Berlin, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Berlin School Board, W. W. Haynes, secretary, Berlin, N. J. Brick, 2 stories, 4 rooms, built-up roof, concrete floors, safety treads, roof ventilators, waterproofing (heating and plumbing separate). Will be ready for bids August 6th.

West Berlin School, Berlin, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Berlin School Board, W. N. Haynes, secretary, Berlin, N. J. Brick, 2 stories, 4 rooms, built-up roof, concrete floors, safety ereads, roof ventilators, waterproofing, metal lath (heating, plumbing and electric separate) Will be ready for bids August 6th.

Stores (3), Apartments (8), Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, J. R. Bole, 83 Beechwood avenue, Trenton, N. J. Brick, terra cotta, 3 stories, 34x60 feet, slag roof, hardwood floors, vapor heat, electric light, tile work, steel sash and skylights, ornamental iron. Plans in progress. Architects will take bids this week.

Church, Flemington, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Flemington Baptist Church, Rev. Dr. Wilson, Flemington, N. J. Brick, steel, 1 story and balcony, 45x100 feet, slate roof, maple floors, hollow tile, steam heat, electric light, metal lath, ornamental iron. Architects about ready for bids.

Laundry, Power House, Dining Hall and Sewage Disposal Plant, Totowa, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, State House, Trenton. Architects about ready for bids.

Bank, Prospect street, Trenton, N. J. Architect, W. A. Kleman, First National Bank Building, Trenton, N. J. Owners, Prospect National Bank, care of architect. Brick, stone, 1 story, 50x65 feet, electric light, tile

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and marble vault, bronze work, ornamental iron. Architect taking bids.

Basement (alts.), Camden, N. J. Architect, Emil G. Perrot, Arch street, Philadelphia. Owners, Our Lady of Mt. Carmel Roman Catholic Church, Rev. Brendan C. Shea, Camden, N. J. Lowering floors, concrete work, carpentry an dmill work, plastering, painting and glazing. Architect taking bids due August 9th, 9 A. M.

Store (add. and alts.), Ashland, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, Goldberg Brothers, Ashland, N. J. Brick, steel, 1 story, 44x60 feet, slate roof, maple floors, roof ventilators, metal ceilings, cast stone, plate glass, tile work. Architect taking bids due as soon as possible.

School, Berlin, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Berlin School Board, W. N. Haynes, secretary, Berlin, N. J. Frame, 1 story, 2 rooms, built-up roof, pine floors, vapor heat, electric light. Architect taking bids due August 5th.

Completion of Gym and Auditorium, High School, North Wildwood, N. J. Architects, H. Rex Stackhouse and W. W. Donohoe, 1120 Locust street, Philadelphia. Brick, hollow tile, 2 stories, 154x72 feet, slag roof, maple, cement, composition floors, heating and lighting extension, tile, plumbing, lockers and showers. Owners taking bids due August 10th.

High School, Gloucester, N. J., $271,000. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Gloucester School Board, A. H. McHenry, secretary, 32 North Berlin street, Gloucester, N. J., and C. H. Fowler, chairman, 222 South Fourth street, Gloucester, N. J. Fireproof, 3 stories and basement, 135x135 feet(heating, plumbing, electric separate), built-up roof, maple floors, hollow tile, safety treads, roof ventilators, weather strip, waterproofing and damp-proofing, ornamental iron, iron stair, bond, fire doors, steel sash and skylights, tile and marble, metal lath. Owners taking bids due August 20th at 8 P. M. (Daylight Saving Time).

Residence, Princeton, N. J. Architects, Wyeth & King, 52 Vanderbilt avenue, New York. Owner, Henry B. Gardner, care of architects. Hollow tile, stucco, 2½ stories and basement, 44x90 feet, 2 wings 22x44 feet, slate roof, oak floors, hot water heat, metal lath, tile work, ornamental iron work. Architects taking bids due August 31st.

Eagles' Home, Southwest Corner South Pearl and Warren streets, Bridgeton, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, F. O. O. E., Aerie No. 1579, Garfield A. McKeen, Bridgeton, N J. Bids due August 6th.

School, Farmington, N. J. Architect, J. Vaughn Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Farmington School Board, care of architect. Brick, hollow tile, steel, 1 story and basement, 80x56 feet. Lowest bidder: John C. Green, Pleasantville, N. J.

Bridges (2), New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Route 8, Section 8, Sussex to Hamburg, Sussex County. M. P. 37.4, Branch of Wallkill Creek, span 8 feet. M. P. 39.3, Beaver Brook, span 20 feet. Excavation, concrete, reinforcing steel. Certified check 10 per cent. of bid. Deposit of $10.00. Owners taking bids due August 16 at 11 A. M. (Eastern Standard Time).

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Morris, Passaic and Sussex Counties, Route 8, Sec. 7, Stockholm-Beaver Lake. Excavation, borrow, double line reinforced concrete pavement. Certified check, 10 per cent. Deposit, $10.00. Owners taking bids due August 16th at 11 A. M. (Eastern Standard Time).

Bridges (5), New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Widening (5) bridges on Route 7, Sec. 6, between Freehold and Hightstown, Monmouth County. M. P. 8.6, Branch of Manalapan Brook, span 9 feet. M. P. 8.8, Manalapan Brook, span 24 feet. M. P. 9.6, Branch of Manalapan Brook, span 8 feet. M. P. 10.5, Wemrock Lake, span 8 feet. M. P. 11.3, Wemrock Brook, span 8 feet. Excavation, borrow, concrete, structural steel, wooden piling. Certified check 10 per cent. Deposit, $10. Owners eaking bids due August 16th at 11 A. M. (Eastern Standard Time).

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Route 1 extension, 8,200 feet, City of Newark. Lowest bidder: Stange Const. Co., 2031 South Broad street, Philadelphia, $1,416,910.

Building, Northeast corner Broadway and Chelten Avenue, Camden, N. J., $15,000 Architect, private plans. Owner, Gulf Refining Company, Sydenham and Locust streets, Philadelphia. Brick, 1 story, 13x21 feet, slag roof. Permit issued.

New Jersey Contracts Awarded

Bank Building, Collingswood, N. J. Architect, J. T. Brugger, Public Ledger Building, Philadelphia. Owners, Collingswood Trust Co., J. T. Pat, vice-president, Collingswood, N. J. Brick, limestone, 2 stories, 50x85 feet (plumbing, heating and electric separate bids), slag roof, cement floors, tile work, ornamental iron work. Contract awarded Franklin M. Harris Co., 1520 Parrish street, Philadelphia.

Bank, South Broad and Liberty streets, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Chambersburg Trust Co., care of architect. Brick, steel, stone, 1 story, 50x150 feet, slag roof, tile floors (heating and plumbing reserved), electric work, tile and marble, vault, bronze work, ornamental iron. Contract awarded to General Cont. & Const. Co., First National Bank Building, Trenton, N. J.

Dance Hall, Mt. Holly, N. J. Architect, private plans. Owner, Herman Cutler, Camden, N. J. Brick, steel, 3 stories and basement, 55x88 feet, slag roof, maple floors, steam heat, electric light, tile work. Contract awarded Albert Pepiak, 1015 Atlantic avenue, Camden, N. J.

Residence, 1169 Bregen avenue, Camden, N. J., $3,000. Architect, private plans. Owner, David Cole, Camden, N. J. Frame, 1 story, 24x36 feet, slate surface roof, pine floors, hot air heat, electric light. Contract awarded to Hugo Weverlsburg, 1021 Cooper street, Camden, N. J.

Residence (add. and alts.), Haddonfield, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, J. A. Reggin, Haddonfield, N. J. General interior and exterior alterations. Contract awarded to Theo. Turner, Haddonfield, N. J.

Residence, 2922 Carman street, Camden, N. J., $8,000. Architect, private plans. Owner, N. D. Stephens, Camden, N. J. Block, 1 story, 24x44 feet, asphalt shingle roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Fred A. Birbeck, 517 East Hilton street, Philadelphia.

Residence (add.), 523 Mickle street, Camden, N. J., $2,800. Architect, A. B. Gill, 304 Market street, Camden, N. J. Owner, Robert G Dowling, on premises. Block, 1 story add., 20x30 feet, slag roof. Contract awarded to Charles R. Horlbeck & Son, 1111 Marion street, Camden, N. J.

Church, Riverton, N. J. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Calvary Presbyterian Church, Rev. C. T. Bates, Riverton, N. J. Stone, steam heat, electric light, slate roof, maple floors. Contract awarded to George W. Shaner & Son, Palmyra, N. J.

Miscellaneous Construction News

Residence and Garage, Westover road, near Kennett Turnpike, Wilmington, Del. Architect, W. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Charles L. Candee, Wilmington, Del. Stone, stucco, half timber, 2½ stories, 30x40 feet, slate roof, hardwood floors, electric light, tile work, rolled steel sash. Plans in progress.

Theatre, Baltimore, Md. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, The Stanley Company of America, 1916 Race street, Philadelphia. Brick, steel, terra cotta, cement floors, hollow tile, architectural terra cotta, fire doors, tile, marble work, metal lath, electric light, steam heat, slag roof. Architects ready for sub-bids.

Hospital, Troy, N. Y. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, James A. Eddy Memorial, Troy, N. Y. Brick, limestone, steel, 2 stories and basement, slag roof, cement floors, steam heat, electric light, tile work, metal lath, ornamental iron work. Revised plans in prog-

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BELL PHONE
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BELL PHONE, CAMDEN 3210
KEYSTONE, CAMDEN 3147
SURETY BONDS

ress. Architects will be ready for new bids in 10 days.

Hotel, Dover, Del. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia Owner, Caesar Rodney Hotel, Dover, Del. Brick. Architects taking bids due August 9th.

Restaurant and Office Building, 225-27 West Forty-second street, New York. Architects, The Stuckert Co., Crozer Building, Philadelphia. Owners, Bickford's, Inc., 156 West Seventy-third street, Philadelphia. Brick, steel, 2 stories and basement, steam heat, electric light, tile and marble work, terrazzo and bras dipt floors, bronze work, plumbing, architectural terra cotta, metal bars. Architects taking bids.

Residences (5), Lamott street, Wilmington, Del., $20,000. Architect, private plans. Owner, Joseph S. Hamilton, 829 Orange street, Wilmington, Del. Brick, stone, 2 stories, 15x39 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (2), 2901-03 Harrison street, Wilmington, Del., $14,000. Architect, private plans. Owners, M. F. and S. J. Boyce, 910 West Twenty-ninth street, Wilmington, Del. Brick, 2 stories, 21x32 feet, slate roof, pine floors, hot water heat, electric light. Permit issued.

Residence and Garage, 2300 McDonough street, Wilmington, Del., $9,000. Architect, private plans. Owner, Charles Eckman, 821 Orange street, Wilmington, Del. Brick, 2½ stories, 20x34 feet, shingle roof, hardwood floors, hot water heat, electric light. Permit issued.

Residence and Garage, Marshalltown, near Wilmington, Del. Architect, R. Brognard Okie, 308 South Smedley street, Philadelphia. Owner, S. Hallock du Pont, Wilmington, Del. Stone, 2½ stories, 30x50 feet, shingle roof, hardwood floors, vapor heat, electric light, tile and marble work, cement. Contract awarded William Francis, Wilmington, Del.

(Continued from page 488)

can be carried, by convection, radiation, and conduction, this fixture should establish definite control to prevent the radiant heat from being communicated into the room.

Thus the manufacturers arrived at the specifications of the Athey Perennial Shade which in its present state of perfection represents the most progressive and scientific improvement for the controlling of outdoor light to illuminate interior of buildings. This shade in effect follows the course of the sun, raises from the bottom, will lower from the top, eliminates all bright glare, radiates a translucent light, affords perfect ventilation, eliminates expensive awnings, is thoroughly waterproofed, dry cleans like new, will resist any wind pressure without rattle and in operation is never touched by the hand. It will wear for years and years and is adequate light. That most of the factors tending to cause eye strain exist in the school, being improper illumination, glare from windows, from glazed paper, and from improperly arranged artificial illumination, and it is an accepted fact that changes occur in the eyes of children during the most economical shade in the long run.

Unlike ordinary shade cloth Athey Perennial Shade cloth has no filling of chalk or clay to break or fall out causing unsightly cracks and pin holes to show in glaring relief against the outdoor light.

Dr. F. B. Dressler, who has devoted his life to the study of these subjects, is perhaps the best informed man we have. Formerly he was connected with the U. S. Bureau of Education, but is now with the Peabody College of Nashville, Tenn., although we understand that he still gives one-third of his time to the government.

Sometime since a representative called on Dr. Dressler with a full model of the Athey shade which he installed in a window. Dr. Dresslar at once said, "You need not tell me about it—it solves the trouble of eye strain, and I will now show you something which you perhaps have not thought of." He covered the entire window with the shade, seated our representative with his back diagonal to the window, handed him some fine print on glazed paper and instructed him to keep his eyes focussed on the page and pay no attention to his movemens. He then began lowering the shade from the top and when he had reached a certain point the vision was perfect. If you will try this you will find the result astonishing for this type of shade sets up a glow of perfectly diffused light, which reaches the remote parts of the room and makes available space that was formerly considered useless.—*Building Industry.*

WOODS—THE OAK RENAISSANCE

It is refreshing to observe the growing appreciation of architectural niceties on the part of builders of small homes for the market. No longer are homes built for, or by, the average American family, such plain, boxlike, purposeless affairs. Verily it would seem that our artistic consciousness has been awakened.

A feature of this awakening to architectural beauty is the pronounced interest in Tudor homes, or English Renaissance effects. And the popular preference for the charm and livability of the cottages of our English cousins, has naturally quickened interest in Oak—the dominant wood of the English Renaissance.

The outside Oak timber work achieves the effect of rugged, solid construction, the exposed Oak beams in hall, living or dining room, are truly reminiscent of the hospitable merry English homes of the 16th and 17th centuries, while the judicious use of Oak wainscot or panelling in the best rooms of the house, the Master's Room most particularly, add the ultimate note of good living and well being.

The word "Wainscot" is used advisedly as a contemporary of panelling, for wainscot in its strict application is Oak, and only Oak. It came into the English language from the Low Danish word "Wagenschott" which referred to a particularly fine species of Oak, imported from Denmark and much preferred in 16th century England for panelling. "Wanscot chairs," those priceless antiques, are merely Oak chairs of Tudor days.

Oak woodwork, notably Oak wainscoting or panelling, is stained to affect the mellow patina of time, a deep, rich brown, or bronze, known as "Antique Oak" or more recently in connection with furniture, as "Renaissance Oak." Golden Oak has no place in the modern, accepted use of this rich, rarely beautiful, enduring wood. Trim panelling and furniture are finished to harmonize with the modern flair for soft tones which incidentally happen to correspond with the deep brown of precious, time-hallowed Oak antiques of the old English halls and manors.

When one dwells on the rich history of Oak and its contribution to the immortal architecture of the Old World, it is difficult to realize that this wood of great tradition is so easily within the reach of the average income. Interest in other woods, has in a measure diverted attention of this generation from this superb hardwood, which in the forest is known as "The Monarch of the Woodland" and in its manufactured shape called by architect and artisan "The Sovereign Wood." It deserves more consideration in modern construction.

For panel work—and what is so rarely elegant and yet as reposeful as this character of finish, either expressed in the strict period spirit of Elizabeth's Era, or in the wide expanse of the latter day motives—Oak lends itself with effective charm. The "Mirrors" or figures in quarter-sawn Oak are lavish both in variety and abundance, permitting an endless decorative interest in the panelling, for each panel may have a distinctive pattern. Yet so subtle is this whimsical beauty of figure that the entire room or house can be joined together in an harmonious whole.

With growing interest in architectural purpose has come a parallel appreciation of the various periods and their appropriate materials. To be accurately reproduced, the English house should recognize the dominance of Oak during the period of its reign in English architecture. It is a wood that cannot be successfully counterfeited by the staining process, because of the rare distinction of its grain. Indeed, the attempt to do so, is to run the risk of a jarring note in an otherwise correct portrait.

In homes of modern spirit, Oak woodwork, doors, trim, moulding, stairways, etc., are enjoying renewed recognition because of the enduring, dependable qualities of Oak, its congenial air, and the ease with which it can be assimiliated into the general scheme of things, any color, any spirit.—*Keith's Beautiful Homes Magazine.*

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
rchitectural Cast Cut Stone Co.....Westmont, N. J.

ARCHITECTURAL IRON WORK
aker City Art Metal Works,
2445 N. Second St., Phila.

AREA GRATINGS
rowhead Iron Works of Pa., Inc.,
65th and Chester Ave., Phila.
ving Iron Works.....1015 Chestnut St., Phila.

ARTESIAN WELLS.
idpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS.
ue Print Shop.....1520 Sansom St., Phila.
obbins, Chas. H., Co.....1729 Sansom St., Phila.
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ue Print Shop.....1520 Sansom St., Phila.
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eber, F., Co. .....125 S. 12th St., Phila.
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BOILER AND PIPE COVERINGS.
ivezey, John R. Glenwood Ave. w. of 22nd St., Phila.

BRICK.
ox, Janeway, & Co..Real Estate Trust Bldg., Phila.
. M. & C. M. Siner..Church and Tacony Sts., Phila.
xcelsior Brick & Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving).
etcham, O. W. .....121 N. 18th St., Phila.

BUILDERS.
itchell Bros. .....2125 Race St., Phila.
oseph Rotornado.....4740 Milnor St., Phila.

BUILDERS' SUPPLIES.
ervice Supply Corporation,
20th and Venango Sts., Phila.
ue Van Sciver Corporation,
The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK.
uskey Mfg. Co. ..Columbia and Howard St., Phila.

CAST STONE
rchitectural Cast Cut Stone Co. ...Westmont, N. J.
neland Architectural Cast Stone Works,
Vineland, N. J.

CEMENT.
ue Van Sciver Corporation.
The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK.
Lauro, John.....7732 Ardleigh St., Phila.
assiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
ivezey, John R. Glenwood Ave. w. of 22nd St., Phila.

COLUMNS (Metal).
arce Fireproof Co. .....1911 N. 2nd St., Phila.

COMPOSITION FLOORS.
gt Bros. .....4250 Ogden St., Phila.

CONCRETE SEWER PIPE.
roudsburg Septic Tank Co..328 Chestnut St., Phila

CONCRETE WORK.
assiah, Frederick.. Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
e T. Ward Co. .....617 Filbert St., Phila.
rvice Supply Corporation. 20th and Venango Sts.

CORK FLOORING
vezey, John R. Glenwood Ave. w. of 22nd St., Phila.
lby Battersby & Co. .....810 Noble St., Phila.

CURTIS WOODWORK.
llingham Co ...Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS.
ilding News Pub. Co. ...1530 Chestnut St., Phila.

DAMPPROOFING.
nti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
rnett Bingswanger.....829 N. 3rd St., Phila.
ncrete Waterproof Paint Co..829 N. 3rd St., Phila.
aster Builders Co., ...Otis Bldg., Phila.
uscon Laboratories.....1505 Race St., Phila.

DOOR BEDS
rphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS.
obbins, Chas. H., Co. .....1729 Sansom St., Phila.
eber, F. Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.

FENCES.
ttit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
tts, Horace T., & Co. ..Erie Ave. & "D" St., Phila.
eisbord, Wolf .....4437-43 Ludlow St,. Phila.

FINANCING (BUILDING)
mmercial Advance Corp., 1011 Chestnut St., Phila.
ortgage Extension Corp.,.1011 Chestnut St., Phila.

FIREPROOFING.
arce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES.
E. Lingo & Son .....Camden, N. J.

FLOOR HARDENER.
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ncrete Waterproof Paint Co...829 N. 3rd St., Phila.
aster Builders Co., ...Otis Bldg., Phila.
uscon Laboratories.....1505 Race St., Phila.

FLOORING (Rubber Tile).
milton Rubber Mfg. Co. ..2313 Walnut St., Phila.
lby Battersby & Co. .....810 Noble St., Phila.

FLOOR PLATES.
Wood, Alan, Iron & Steel Co..Widener Bldg., Phila.

FLUE LINING.
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Abram Cox Co....American and Dauphin Sts., Phila.
Fleck Bros. .....44 N. 5th St. Phila.
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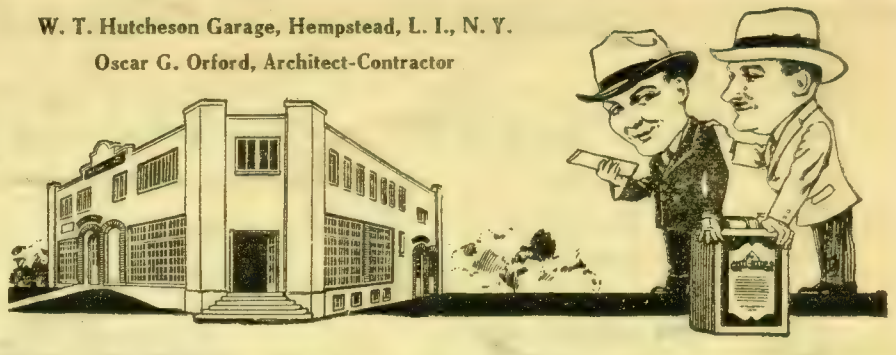
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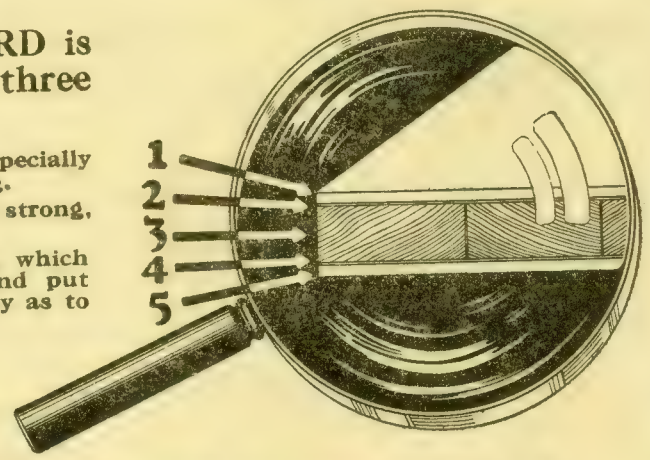
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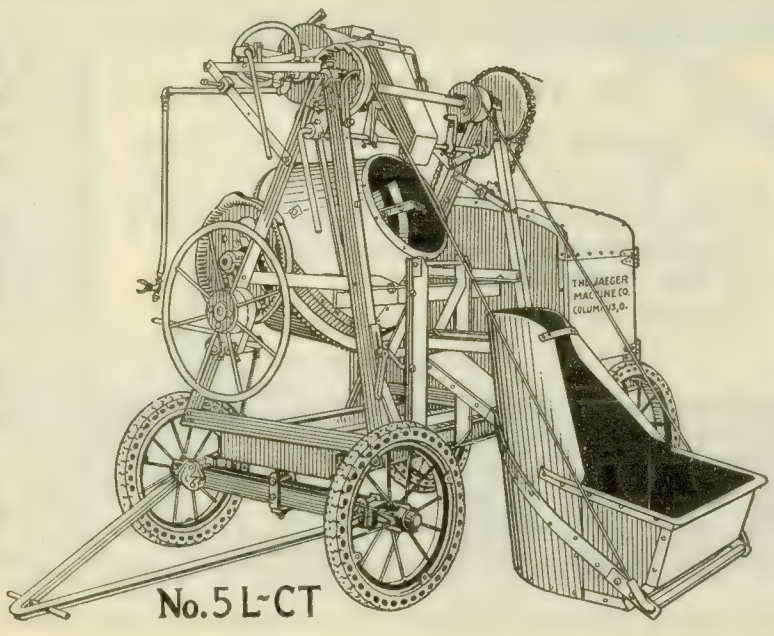
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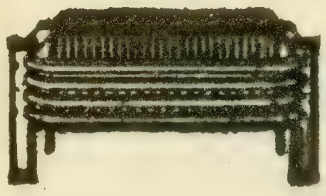
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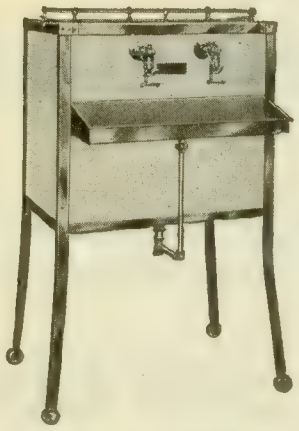
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VOLUME XLI
Number 32

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August 11, 1926

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As The Editor Sees It

SUBSTANTIAL AND ECONOMICAL CONSTRUCTION*

J. P. Mollenkof†

I have been wondering how you persuaded me to come here to try and tell you something about lime. I do not understand why you did not select someone who knows lime. First of all, I want it understood that I am not connected with any lime company and that the only reason I am using lime is simply because I want to use materials that are best and which I can buy at a price which will enable me to compete with other contractors.

The reason I have selected lime may be because my grandfather used it for mortar in building church steeples, and for stucco 75 years ago around Philadelphia and the jobs are still standing. My father also used straight lime in all his plaster and stucco 45 to 50 years ago and his jobs are still in good shape. Possibly their reason for using lime was that they had no other choice, as cement was out of the question in those days. However, when I can look back and see jobs standing for 75 years and more I often wonder why builders waste their time and money experimenting with every new material that comes along, pushed by a smooth-tongued salesman without any practical experience.

Some 12 to 15 years ago I started a collection of old stuccos and plasters, getting complete information as to how old they were, nature of aggregate, etc., etc. I now have specimens of stuccos, mortars and plasters dating back over 100 years. Quite a number of these specimens were plastered on hand-split lath, fastened with hand-made nails. When these specimens were taken away they were as good as the day they were put on. They are all examples of lime plaster, well sanded. You will note from the few samples I have here that the specimens are as hard as concrete.

The organization with which I am connected, John H. McClatchy of Philadelphia, has always been interested in giving the people the most satisfactory home that can be built for the price involved. This has, of course, necessitated considerable experimental work on our part in an endeavor to determine what materials were most suitable from the economical point of view, as well as the standpoint of durability. For stucco, plaster and mortar we have confirmed the fact that lime was the most satisfactory. In addition we have found that this material also served a useful purpose in precast work, and have made use of it accordingly.

Some six years ago the speaker was working with various concrete products. About that time we had considerable trouble with the stucco then being applied by various contractors. There seemed to be some difficulty in securing uniform and satisfactory results. It occurred to us that perhaps we could solve the problem by using a mortar mixer and deliver the stucco to the job ready-mixed. We tried it, and the indications were favorable. However, the mix then used did not seem to us to be the most suitable and we began to study the problem more intensively. While this study was under way with stucco we commenced to have some difficulty with plastering, which was then done by sub-contractors, and it also seemed a good plan to consider the problem of mason's mortar. The problem grew rapidly once we started.

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* Persented before the Eighth Annual Convention, National Lime Association, June 8-11, 1926, French Lick, Indiana.

† Superintendent of Construction, John H. McClatchy Co., Philadelphia, Pennsylvania.

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We tried practically every plastering material that was available. Some were hard to work, but set quickly. Some made a very easy working mix, but cut down the strength. Others gave high strength, but were hard to handle. We finally adopted lime and since then we have had practically no diculty in securing satisfactory and durable construction.

We decided to build a central mixing plant, and had to do it in a hurry, for the jobs were waiting for material. This was done. We installed a slacking system, consisting of a large slacking box about 30 feet long, 6 feet wide and 2 feet deep, in which a man can run off 120 bushels of lime per day without trouble. On the job we found that about 60 bushels was an average good day's work. With the large box we have our water readily available, four 1½-inch streams discharging into the box as needed. The lime is delivered close to the box so that the slacker can shovel it in without much effort and can handle the job without lost motion. From the box the lime is run through a screen into storage vats where it is allowed to stand until cold, a matter of three weeks under normal conditions. These vats are about 30 feet long, 5 feet 6 inches deep and 5 feet wide. After the lime is run off it is allowed to stand for two days and the water which rises is then pumped to a storage tank, to be used in slacking another batch of lime. The putty then lies for the balance of the three weeks without being disturbed.

From the vats the putty is moved to the mixers by wheelbarrows. We have found by experience that it does not pay us to try and pump the lime from the vats to the mixers. Two Blystone mixers are used, each arranged for independent operation, with separate sand storage bins, etc. The mixer is fully charged with sand while in motion, the necessary amount of properly picked hair and fibre put in, the lime added and the whole mass is then thoroughly mixed for about 3 minutes. The mixer then turns over and discharges into a waiting truck below. Four men operate the mortar plant, taking care of the slacking, moving of the lime to the mixers, sand storage, the mixing, hair and fibre picking and general work with a production of about 65 tons per day. This plant runs steadily every working day in the year. In fact, it is the only way that we can handle plaster and stucco jobs during the cold months. Construction naturally slows down to some extent, but even during the coldest weather we slack at least 60 bushels of lime every day. In fact, three years ago we lost only two days in zero weather, about one week was lost the year before last, and about the same time was lost last winter. We tried mixing on the job, but that did not work, and since we have been using the mixing plant everything has been much more satisfactory. We do not have trouble with waste or frozen plaster and we find that the work goes faster on the job. During the warm months we slack on an average of 150 bushels of lime per day so you see that our central mixing plant is a busy place at all seasons of the year.

Within a 5-mile radius of our plant we find that we can get ready-mixed plaster, and stucco on the job at a lower cost than can possibly be secured by even the most efficient field operation. We have far less waste and are assured of a uniform mortar at all times. It also increases the efficiency of the plaster, for they know exactly what kind of material to expect, and work steadily, note having to bother about retempering or other delays which are frequently encountered when field mixing is practiced.

For delivering mortar we use International trucks, with 1-yard special bodies designed to dump into mortar boxes. We found that pucture proof tires, either of the solid or perforated type, are absolutely necessary, for tire trouble must be eliminated.

The way to make the best stucco was our first problem after the central mixing plant had been developed. This involved

(Continued on page 514)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Bank, Broad and Nedro avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Fern Rock Trust Co., S. B. Davis, Broad and Nedro avenue, Philadelphia. Stone, concrete, brick, cut stone, steel, 2 stories and basement, 28x48 feet, slag roof, cement and pine floors, plumbing, dampproofing, electric light, metal lath, tile, marble and terrazzo work, hollow metal sash, rolled steel skylights, ornamental iron work, demolition, bronze work, linoleum floors. Architect taking bids due August 12th.

Sales and Service Building, 4718 North Broad street, Philadelphia. Architects, Thalheimer & Weitz, Wesley Building, Philadelphia. Owners, Logan Oakland Motor Co., T. Hendri, manager, on premises. Limestone, brick, reinforced concrete, 3 stories, 60x178 feet. Plans in progress.

Building, 242 Arch street, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, H. Chervin, 2111 Boardwalk, Atlantic City, N. J. Brick, cast stone, steel, 3 stories and basement, 51x19 feet, slag roof, pine floors, electric light, marble work, roof ventilators, rolled steel skylights, ornamental iron work. Owner taking bids.

Apartment House, Southeast Corner Sixty-third and Walnut streets, Philadelphia, $1,500,000. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owner, L. M. Lifter, Jefferson Building, Philadelphia. Brick, steel, limestone, cut stone, 9 stories. Preliminary plans in progress.

Theatre, Stores and Apartments, Fifty-fourth and Arlington avenue, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, The Stanley Company, 1916 Race street, Philadelphia. Brick, 2 stories, 228x97 feet 6 inches, gypsum roof, mosaic and tile floors, terrazzo floors, tile and marble work, kalamein doors, structural steel, iron work, architectural terra cotta, dampproofing, carpentry and mill work, painting and glazing, art glass, concrete and cement work, shoring, excavation. Architects taking bids due August 16th.

Building (alts. and add.), 1715 Pine street, Philadelphia. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, Dr. A. M. Rechtman, on premises. Cement work, brick work, marble and tile work, structural steel and iron work, repairs to roofing, carpentry, ak floors, linoleum floors, hardware, plastering, painting, electric work, heating alterations, morene wall finish. Architect taking bids due August 23rd.

Auto Show Room, 1638-40 Hunting Park avenue, Philadelphia. Architect, private plans. Owner, Stephen Haas, Land Title Building, Philadelphia. Brick, steel, 2 stories, 83x105 feet, slag roof, concrete floors, concrete ramps, hot water heat, electric light, rolled steel sash, hollow metal skylights. Plans in progress. Frank V. Radomski, 4329 North Sixteenth street, will take sub-bids.

Art Museum (miscellaneous work), Fairmount Park, Philadelphia. Architects, Borie, Trumbauer & Zantzinger, Land Title Building, Philadelphia. Owners, Commissioners of Fairmount Park, P. T. Martin, 127 City Hall. Low bidders: Electric, Cates & Shepherd, 1936 Delancey street, Philadelphia, $93,300. Wiring for cascade, Cates & Shepherd, 1936 Delancey street, $8,900. Heating and ventilating, Bulman Brothers, Fifth and Cumberland streets, $150,044. Plumbing, W. G. Cornell, Colonial Trust Building, $46,063. Piping for cascade, W. G. Cornell, Colonial Trust Building, $30,890.

Miscellaneous Wor, Delaware Co. Hospital, Conway Tract, Lansdowne avenue, Upper Darby, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Delaware County Hospital, Dr. T. Clawson Beswick, Stonehurst. Sterilizing and disinfecting apparatus. Architects taking bids due August 18th. Laundry machinery equipment bids due August 11th.

Moving Picture Theatre, 3812 Locust street, Philadelphia, $115,000. Architect, private plans. Owner, J. M. Kennedy, 3rd, 3812 Locust street, Philadelphia. Brick, 2 stories, 40x155 feet, steam heat, electric work, cement work and slag roof. Permit issued.

Sunday School, Westview and Greene streets, Germantown. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Summitt Presbyterian Church, Rev. Frank M. Fox, 517 Westview street. Stone, 2 stories and basement, slate roof. Architect taking bids due August 18th.

Museum (add.), Thirty-fourth and Spruce streets, Philadelphia. Architects, Day & Klauder, Franklin Bank Building; Wilson, Eyre & McIlvaine, 1003 Spruce street; Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets. Brick, cut stone, marble, reinforced concrete, steel, 1 story, ground floor mezzanine and 2 basements, 204x70 feet, tile roof, cement floors, hollow tile, plumbing, metal lath, marble and terrazzo work, rolled steel sash, steel doors, kalamein doors, bond, shoring, waterproofing, ornamental iron work, cork flooring, granite, bluestone, area gratings. Bids due August 20th, 2 P. M. Stewardson & Page taking bids.

Factory Building, Richmond, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Philadelphia Gear Works, Richmond and Tioga streets, Philadelphia. Brick, steel, 2 stories, slag roof, cement floors. Plans in progress.

Residences (11), Houghton and Roxborough avenue, Philadelphia, $43,000. Architect, private plans. Owner, Harry Glass, 5324 Berks street, Philadelphia. Brick, 2 stories, 16x28 feet, 16x40 feet, hot water heat, electric light, carpentry and mill work. Permit issued.

Residences (62), North and South side Anchor street, West of Summerdale avenue, Philadelphia, $5,000 each. Owner, J. P. McMahon, 4844 Roosevelt Boulevard, Philadelphia. Brick, 2 stories, 15x28 feet, 10x14 feet, hot water heat, electric light, carpentry and mill work. Permit issued.

Warehouse, Delaware and Mifflin, Philadelphia, $8,000. Architect, private plans. Owners, Rissar & Rabinowitz, on premises. Steel frame, 1 story, 72x76 feet, electric light, cement work. Permit issued.

Shop, Twenty-third and Westmoreland streets, Philadelphia, $4,000. Owners, Sharpless Specialty Co., on premises. Steel frame, 1 story, 40x48 feet, cement work. Permit issued.

Residences (12), South side Conshohocken avenue, West of Forty-sixth street, Philadelphia, $79,000 total. Architect, private plans. Owner, John H. McClatchey, Sixty-ninth and Chestnut streets, Philadelphia. Brick, 2 stories, 16x30 feet, 11x11 feet 6 inches, hot water heat, electric work, oak and pine floors, slag roof. Permit issued.

Residence (alts.), 2029 Spruce street, Philadelphia, $10,000. Architect, private plans. Owner ,Alan G. Smith, Ardmore, Pa. Carpentry and mill work, plastering, painting and glazing, hardware, general alterations. Permit issued.

Residence, Northeast Corner Silverwood and Wigard streets, Philadelphia, $10,000. Architect, private plans. Owners, G. L. & J. K. Callahan, 542 East Fairthorn avenue, Philadelphia. Frame, 3 stories, 36x26 feet, 10x18 feet, electric light, hardwood floors, tile work. Permit issued.

Residences (2), Stanwood, West of Frontenac, $3,800 each. Architect, private plans. Owner, Peter Heidt, Jr., 7403 Claridge street, Philadelphia. Frame, 2 stories, 23x36 feet, hardwood and pine floors, electric light, hot water heat. Permit issued.

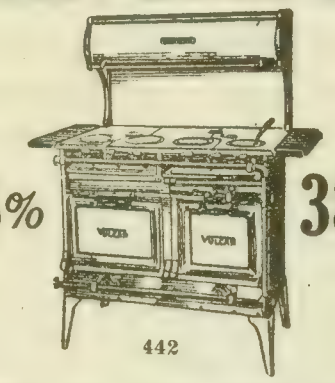
Residence, Leonard, North of Rhawn street, Philadelphia, $10,000. Owner, James Kane, 4319 North Third street, Philadelphia. Frame, 2 stories, 40x26 feet, hot water heat, electric light. Permit issued.

Sewer Work, Philadelphia. Owners, Department of Public Works, 216 City Hall.

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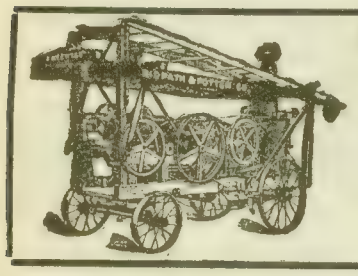
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Residences (36), Upland, West of Sixty-sixth street, Philadelphia, $32,000. Owners, Kushin & Slavitt, 314 South Broad street, Philadelphia. Brick, 2 stories, 16x30 feet, hot water heat, electric light, slag roof, oak and pine floors. Permit issued.

Residences (36), Gowen avenue, West of Germantown avenue, Philadelphia, $191,000. Owner, H. B. Cahan, Gowen avenue, Circle, Philadelphia. Brick, 2 stories, 20x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Office, Rising Sun, North of Adams street, Philadelphia. Architect, private plans. Owner, Charles F. Felin, 3812 York road, Philadelphia. Brick, 1 story, 22x32 feet, pine floors, slag roof, electric light. Permit issued.

Residences (28), Wakeling street, east of Colgate Street, Philadelphia, $84,000. Owner, Nathan Epstein, 247 E. Louden Street, Philadelphia. Brick, 2 stories, 16x27 feet, 12x10 feet, hot water heat, electric light, pine and hardwood floors. Permit issued.

Service Station, Cobbs' Creek Boulevard and Church Lane, Philadelphia, $5,000. Architect, private plans. Owner, Charles W. Moloney, 5815 Hoffman street, Philadelphia. Brick, 1 story, 16x12 feet, cement work, steel sash. Permit issued.

Residence, 701 St. Albans Street, Philadelphia, $2500. Architect, private plans. Owner, A. DeCecco, 754 South Seventh Street, Philadelphia. Brick, 3 stories, 14x20 feet, hot water heat. electric light. Permit issued.

Miscellaneous Paving, North Broad street, Montgomery to Cumberland Streets, Philadelphia. Owner, Dept. of Public Works, uBreau of Highways, 232 City Hall. Low bidders: Francis Panuso Co., Philadelphia, $134,510. McNichol Paving, 1923 Cherry Street, Philadelphia, $138,455.

Residences (42), Raymond Street, Third and Fourth Streets, $3500 to $4000 each. Owner, Robert Erney, 4718 North Fourth St., Philadelphia. Brick, 2 stories, 16x30 feet, 17x30 feet hardwood and pine floors, electric light. Permit issued.

Apartment House, N. S. Pine Street, between Fort-seventh and Fort-eighth streets, Philadelphia. Architect, Ralph Bencker, Bellevue Court Building, Philadelphia. Owner, Clarence Siegel, Garden Courts Apartment, Philadelphia. Brick, concrete, steel, 0 stories, 190x320 feet. Ready for bids in 3 weeks.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Office, Lancaster and Malvern Streets, Philadelphia, $70,000. Architect, private plans. Owner, Jos. P. Hughes, 312 S. Broad Street, Philadelphia. Brick, 2 stories, 176 feet x irregular, electric light, steam heat. Contract awarded Alex. Chambley Const. Co., 229 New St., Philadelphia.

Residence and Garage (alts.), 230 W. Tulpehocken, Philadelphia, $6500. Owner. Wilmont Grant Pierce, on premises. Brick, 1 story, 25x25 feet, general alterations. Contract awarded W. C. Wright & Son, 23 Harvey Street, Philadelphia.

Stores and Residence, Greene and Carpenter Streets, Philadelphia, $4200. Owner, E. R. Swank, on premises. Brick, 2 stories, 15x15 feet, general alterations. Contract awarded Wm. C. Wright and Son, 22 Harvey St., Philadelphia.

House and Garage, Tulip and Rhawn Sts., Philadelphia, $17,500. Architect, private plans. Owner, Schlettz & Zander, on premises. Brick, 1 story, 64x30 feet, 32x35 feet, electric light, slag roof. Contract awarded Wm. F. Lotz, Oxford Bank and Trust Building.

Alterations and Additions, 5610-12 Germanton Avenue, Philadelphia, $6,000. Architect, Robert L. Gill, 5600 Germantown Avenue. Owner, Ashe Apparel Shop, Benjamin Ashe, on premises. Brickwork, demolition, carpentr and millwork, marble and tile work, metal store front, sheet metal work, painting and glazing, plastering, cement and concrete work, iron work, brass and Grills. Contract awarded J. Maurer & Co., 1304 N. 2nd St., Philadelphia.

Irvine Memorial Auditorium, Thirty-fourth and Spruce streets, Philadelphia, $900,000. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Brick, concrete, steel,

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variegated slate roof, maple floors, cement floors, steam heat, electric light, metal lath, marble and terrazzo work, ornamental iron work, ornamental terra cotta, sprinkler system, steel partitions. Contract awarded Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Service Supply Station, Forty-eighth and Girard avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Pep Auto Supply Co., Broad and Vine streets, Philadelphia. Brick, 1 story, 50x75 feet, slag roof, composition and wood floors, plumbing, sprinkler system, heating, electric light. Contract awarded Barclay White Const. Co., 1713 Sansom street, Philadelphia.

Church, Hancock and York road, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Alpha Baptist Church, on premises. Contract awarded Robert Beatty, 2321 East Fletcher street, Philadelphia.

Store, Southwest Corner Sixth and Race streets, Philadelphia. Architect, C. J. Mitchell, 15 South Twenty-first street, Philadelphia. Owner, name withheld. Brick, 1 story and basement, 30x30 feet, hot water heat, electric light, galvanized iron work, cement and plumbing, steel partitions, mil lwork, new bulks. Contract awarded Hopple & Miller, Heed Building, Philadelphia.

Carpenter Shop, Delaware and Howell streets, Philadelphia. Architect, Eugene Stopper, 10 South Eighteenth street, Philadelphia. Owners, Helwig Silk Dyeing Co., on premises. Brick, steel, 2 stories and basement, 48x85 feet, slag roof, cement floors. Contract awarded J. L. Fawley, 1615 Spruce street, Philadelphia.

Patrol House, 1646-48 Bridge street, Philadelphia, $40,000. Architect, private plans. Owners, Fire Insurance Patrol, on premises. Brick, 1 and 2 stories, 40x80 feet, slag roof, cement and pine floors, steam heat, electric light. Contract awarded F. G. English, 1610 North Carlisle street, Philadelphia.

Service Station, Greene street and Queen Lane, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Atlantic Refining Co., Atlantic Building, Philadelphia. Brick, stucco, 1 story, 54x31 feet, slag and Spanish tile roof, cement and pine floors, electric light, metal lath, tile work, terra cotta caps. Contract awarded Metzger, Fisher & White, Otis Building, Philadelphia.

Store and Apartments (4) (rebuilding), 6201 Ogontz avenue, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, Samuel Shapiro, Bailey Building, Philadelphia. General rebuilding. Contract awarded Builder Caplan ,2514 North Myrtlewood street, Philadelphia.

Stores (2), Apartments (4) (rebuilding), 6145-47 Ogontz avenue. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, Samuel Shapiro, Bailey Building, Philadelphia. General alterations and additions. Contract awarded Builder Caplan, 2514 North Myrtlewood street, Philadelphia.

Machine Shop, 2428 North Marshall street, Philadelphia, $2,050. Architect, private plans. Owner, J. C. Hedok, 2432 North Sixth street, Philadelphia. Brick, 1 story, 20x65 feet, slag roof, cement floors. Contract awarded to H. L. Morrison, 515 West Erie avenue, Philadelphia.

Lodge Building, 755-59 South Nineteenth street, Philadelphia, $42,500. **Garage,** 756 South Dorrance street, Philadelphia, $7,500. Owners, G. O. Odd Fellows, on premises. Brick, 3 stories, 40x60 feet, steam heat, electric light, pine floors, slag roof, garage, brick, 1 story, 48x46 feet. Contract awarded H. H. Conway, 5800 Walnut street, Philadelphia.

Residences (5), Paul and Womrath streets, Philadelphia, $28,600 total. Architect, private plans. Owner, R. Domincio, 4201 Paul street, Philadelphia. Brick, 2 stories, hot water heat, 19x60 feet, 16x26 feet, 16x21 feet, hardwood and pine floors, electric light. Contract awarded George Gray, 1224 Wakeling street, Philadelphia.

Stores (alts.), Northwest Corner Eighth and Chestnut street, Philadelphia, $15,000. Architect, private plans. Owner, I. Press, on premises. Owner, M. Benjamin, 5913 Chancellor street, Philadelphia.

Residence, Trevose road, East of Whitney street, Philadelphia, $10,000. Architect, private plans. Owner, Frank P. Murray, Somerton, Pa. Frame, 2 stories, 38x24 feet, hot water heat, electric light. Contract awarded Alfred J. Sickel, Trevose, Pa.

Garage and Storage, 1026-28 Mountain street, Philadelphia, $6,500. Architect, private plans. Owner, Antonio Marchiono, Eleventh and Federal streets, Philadelphia. Brick, 1 story, 29x56 feet, cement floors, slag roof. Contract awarded Frank De Marco, 2012 South Sixteenth street, Philadelphia.

Manufacturing Building (add.), 310 Spruce street, Philadelphia, $5,000. Architect, private plans. Owner, Samuel Birer, on premises. Brick, 1 story, 26x69 feet, electric work, pine floors, slag roof. Contract awarded J. F. Roystone, 705 East Girard avenue, Philadelphia.

Garage, Northeast Corner Fifty-sixth and Race streets, Philadelphia, $4,000. Architect, private plans. Owner, George W. Fossett, on premises. Brick, 1 story, 18x40 feet, cement floors, electric work, slag roof. Contract awarded J. D. Fisher, 5426 Thompson street, Philadelphia.

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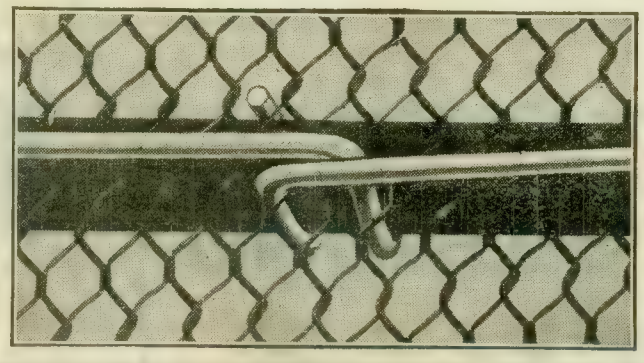
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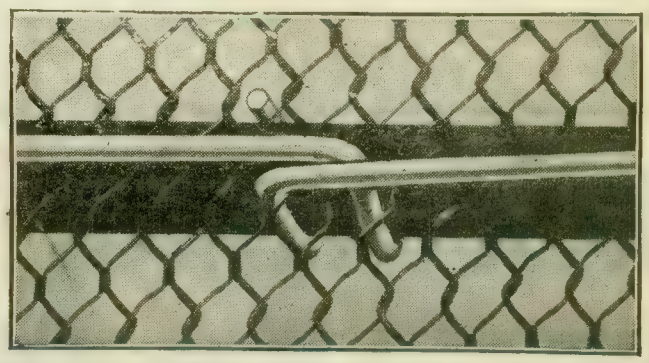
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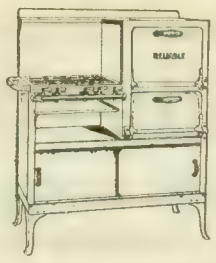
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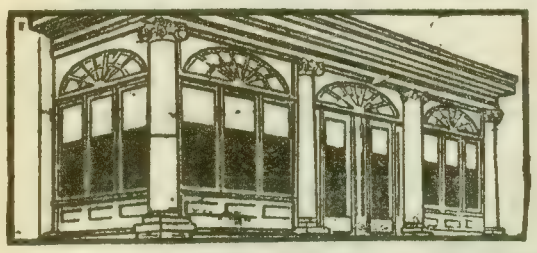
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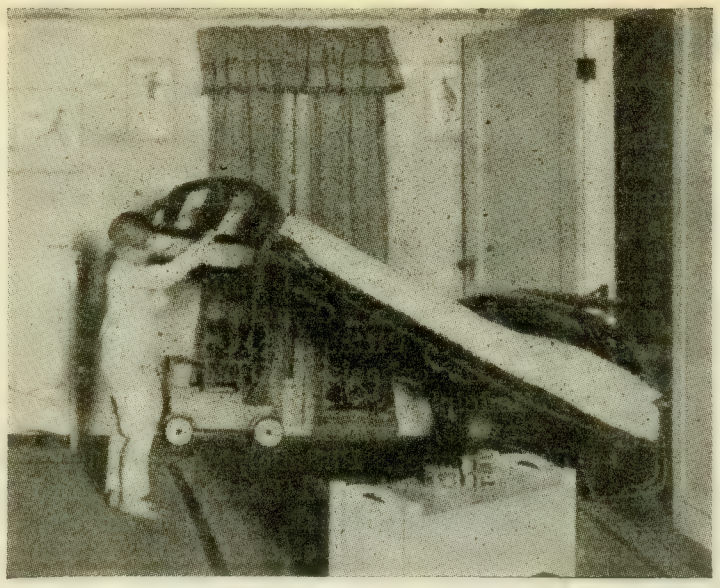
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Pump House, East side Torresdale avenue, South of Kinsey street, Philadelphia, $4,000. Architect, private plans. Owners, United Gas Improvement Co., Broad and Arch streets, Philadelphia. Brick, 1 story, 17x28 feet, cement floors, slag roof. Contract awarded George W. Thayer Co., 109 North Camac street, Philadelphia.

Shop, 5507 Chestnut street, Philadelphia, $3,300. Owner, John Golden, 504 Walnut street, Philadelphia. Brick, 1 story, 26x60 feet, pine floors, slag roof. Contract awarded H. C. Dahl, 231 South Eighth street, Philadelphia.

Additions to Store, 1306 Columbia avenue, Philadelphia, $2,500. Owner, Rose Torr, on premises. Brick, 1 story, 15x28 feet, maple floors, slag roof. Contract awarded to Joe Getz, 4837 North Eleventh street, Philadelphia.

Residences (2), 1332-34 Palmetto street, Philadelphia, $5,000 each. Architect, private plans. Owner, Harry H. Megargee, 7336 Palmetto street, Philadelphia. Brick, 2 stories, 14x43 feet, hardwood floors, hot water heat. Contract awarded Daniel Johnson, 529 Solly avenue, Philadelphia.

Storage and Residence (alts. and add.), 320 North American street, Philadelphia, $4,000. Owner, Charles Lewis, 327 North Third street, Philadelphia. Brick, 1 story, 17x72 feet, electric light, carpentry and mill work. Contract awarded Clayton Loffland, 231 North Water street, Philadelphia.

Church and Sunday School, Broad and Mt. Vernon streets, Philadelphia, $2,000. Owners, St. Matthew's Lutheran Church, on premises. Brick, 1 story, 27x13 feet, carpentry and mill work, electric light. Contract awarded Paul Brothers, 2515 North Huntingdon street, Philadelphia.

Residences (2), Alixia, North of Hoffnagle, Philadelphia, $3,500 each. Architect, private plans. Owner, J. A. Bacher, 7862 Oxford avenue, Philadelphia. Brick, 2 stories, 16x26 feet, hot water heat, electric work, oak and pine floors, slag roof. Contract awarded H. W. Myers, 638 Solly avenue, Philadelphia.

Hospital (alts.), Twenty-third and Walnut streets, Philadelphia, $3,000. Architect, private plans. Owner, W. L. Clarke, 2215 Walnut street, Philadelphia. General interior alterations. Contract awarded to I. A. Dunkelberger, 71 E. Herman St., Philadelphia.

Residence (alts.), 32 Summitt avenue, Philadelphia. Owner, S. A. Croyen, on premises. General alterations. Contract awarded Alex. Care, 48 East Chestnut avenue, Chestnut Hill, Pa.

Store and Residence (alts.), Fifteenth and Callowhill streets, Philadelphia, $3,000. Owner, W. B. Small, 1321 Spruce street, Philadelphia. General alterations. Contract awarded Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Store and Residence (alts.), 2121-23 Ridge avenue, Philadelphia, $2,500. Architect, private plans. Owner, Joseph Newport, on premises. General alterations. Contract awarded I. Alterman, 5400 B street, Philadelphia.

Store Building, 1423-32 Point Breeze avenue, Philadelphia. Architect, Harold Holes, Detroit, Mich. Owners, S. S. Kresge & Co., Detroit, Mich. Brick, granite, steel, 2 stories and basement, 101x50 feet, slag roof, cement and maple floors, plumbing, waterproofing, steam heat, electric light, metal lath, tile and marble, terrazzo work, bond, metal bulks, bronze work, sidewalk lifts. Contract awarded Fred Elvidge & Son, 5522 Germantown avenue, Philadelphia.

Auto Show Room (alts.), 5813 Torresdale avenue, Philadelphia. Architect, Edward Schoeppe, 1437 Spruce street, Philadelphia. Owner, Andy Newton, Inc., on premises. Brick, mill work, pine floors, painting, glazing, structural steel. Contract awarded E. E. Hollenback, 1910 North Marshall street, Philadelphia.

Exhibit Booth, Manufacturing Building No. 5, Sesqui Grounds, Philadelphia. Architect, private plans. Owners, Westinghouse Air Brake Co., Pittsburgh, Pa. Contract awarded E. E. Hollenback, 1910 North Marshall street, Philadelphia.

Garage, Sixteenth street, Waverly to Addison street, Philadelphia, $90,000. Owner, Samuel Frank, 441 South Sixty-third street, Philadelphia. Brick, steel, 3 stories, 65x118 feet, steam heat, electric light, cement work, slag roof, steel sash. Contract awarded J. M. Rosenberg, 6025 Irving street, Philadelphia.

Warehouse (alts.), 138-40 North Front street, Philadelphia, $9,000. Owners, Loury Coffee Co., on premises. General interior alterations. Contract awarded Stewart Brothers Co., 2526-28 North Orkney street, Philadelphia.

Store and Residence (add.), Fifty-first and Market streets, Philadelphia, $4,000. Owners, H. Rowland, Inc., on premises. Brick, 1 story, 20x16 feet, pine floors, slag roof. Contract awarded Louis Swedhoff, 4917 Sansom street, Philadelphia.

Store and Residence (alts. and add.), 277 South Fifty-second street, Philadelphia, $4,500. Owner, A. C. McKinney, on premises. Brick, 2 stories, 13x19 feet, electric work, pine floors, slag roof. Contract awarded Walter A. Evitts, 4920 Fairmount avenue, Philadelphia.

Store and Residence (alts.), Northwest Corner Fifteenth and Thompson streets, $3,000. Owner, F. Willard, on premises. General alterations. Contract awarded Integrity Const. Co., 1118-26 Disston street, Philadelphia.

Pennsylvania Construction News

Bank, Schwenkville, Pa., $100,000. Architects, Tilghman Moyer Co., 141 North Ninth street, Allentown, Pa. Owners, I. S. Schwenk, president, National Bank of Schwenkville. Limestone, 1 story. Plans in progress.

Superstructure, Store Building, Tamaqua, Pa. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Owner, Edward J. Jennings, Tamaqua, Pa. Brick, steel, 3 stories, 52x150 feet. Owner taking bids due August 16th.

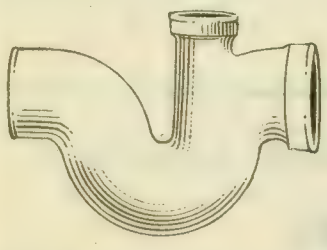
Store and Apartment, 26 East Sixth street, Chester, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, John G. Pappas, Chester, Pa. Brick, cut stone, steel, 3 stories, 100x21 feet, slag roof, pine, cement and oak floors, plumbing, shoring (heating, lighting reserved), metal lath, tile and marble work, hollow metal sash, ornamental iron work. Architect taking bids.

Nurses' Home, Mercy Hospital, Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Mercy Hospital, Wilkes-Barre, Pa. Brick, steel, 4 stories and basement, 45x160 feet, composition roof, composition floors, hollow tile, elevator,s metal lath. Architect taking bids due August 18th.

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Residences (3), High street, Pottstown, Pa. Architects, Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, P. Pollock, High street, Pottstown, Pa. Brick, 2½ stories, 66x32 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will take bids.

Residence (alts. into Apartments), Windber, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owners, Berwind White Coal Mining Co., Windber, Pa. Architect taking bids.

Residence (alts. and add.), Merion, Pa. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owner, J. Renwick Hogg, care of architect. Stone, brick, cut stone, steel, 2½ stories and basement, 48x22 feet, shingle and tile and slag roof, oak, pine and cement floors, hot water heat, electric light, metal lath, hollow metal sash, bond, ornamental iron work, roof ventilators, waterproofing, plumbing, bluestone, limestone, flagstone. Architects taking bids due August 12th.

Residences and Garages (2), Drexel Hill, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 28x43 feet, 1 story, 20x18 feet, 2½ stories, 25x28 feet, 1 story, 10x20 feet, shingle roof, hardwood and cement floors, hot water heat, electric light, tile and marble work, kitchen equipment, electric refrigerators, automatic gas heaters. Plans in progress.

Residences (2) (alts.), Cornwells, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Otto Dschaumisch, Cornwells, Pa. Frame, moving buildings, general alterations, hot water heat, electric light, tile work, plumbing, hardwood floors. Owner taking general bids.

Residence, Yeadon, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Howard Swope, Fifth and Main streets, Darby, Pa. Stone, frame, 2½ stories, 40x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Architect ready for bids.

New Rectory, Mt. Carmel, Pa. Architect, George I. Lovatt, 223 South Sydenham street, Philadelphia. Owners, Our Lady of Mt. Carmel Parish, Mt. Carmel, Pa. Architect taking bids due August 16th.

Residence and Garage, Merion, Pa. Architect, Alexander M. Adams, 1012 Walnut street, Philadelphia. Owner, Norman F. Hunnewell, Merion, Pa. Stone, 2½ stories and basement (plumbing, heating and electric reserved), slate roof, oak and pine floors, tile work, electric light, metal lath. Revised plans in progress.

Grade School, College avenue, South of Chester road, Swarthmore, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Swarthmore School District, J. A. Perry, 104 Princeton street, Swarthmore, Pa. Stone, concrete, steel, 3 stories, 66x104 feet. Plans in progress.

High School, Seventh and Spruce streets, Darby, Pa., $200,000. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School Board of Darby, A. Holroyd, 123 South Sixth street, Darby. Stone, 2 stories. Architect selected. Plans in progress.

Stores (17), Montgomery pike and Anderson street, Ardmore, $125,000. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owner, James H. Kays, care of architect. Limestone, 2 stories, 37x80 feet, 1 story, 20x80 feet, brick, steel, steam heat, electric light, cement and wood floors. Plans in progress. Architect will be ready for bids in about 3 weeks.

School Building, Boothwyn, Pa. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owners, Upper Chichester Township Board of Education, F. B. Albany, Boothwyn, Pa. Owners takingbids due August 16th.

School, Lansdale, Pa. Architect, Watson K. Phillips, 213 South Fifth street, Philadelphia. Owners, Lansdale School Board, H. L. Ruth, Lansdale, Pa. Brick, 2 stories, 173x78 feet, slag roof, electric light, heating and ventilating apparatus, lockers, concrete work. Plans in progress.

School (alts. and add.), Pennhurst, Pa. Architect, private plans. Owners, Board of Trustees, Pennhurst State School, Dr. E. W. Fuller, Pennhurst, Pa. Cement floors, hollow tile, safety treads, metal lath, bond, iron stairs, kalamein doors and trims, painting and mill work, plastering, sheet metal work. Certified check 2 per cent. of bids. Owners taking bids due August 11th, 11 A. M.

Grade School, Sharon Hill, Pa. Architect, Arnold Moses, Temple Building, Camden, N. J. Owners, Sharon Hill School Board, Sharon Hill, Pa. Brick, cut stone, steel, reinforced concrete, 2 stories and basement, 152x82 feet (plumbing, heating, lighting separate), Barrett Specification roof, cement and maple floors, metal lath, waterproofing, limestone. Owners taking bids due August 12th (revised).

Road Work, Pennsylvania. Owners, Department of Highways, Harrisburg, Pa. Owners taking bids due August 10th, 10 A. M. Allegheny County, R-395, A 4099, Penn and Wilkins Townships, 3.70 miles. Allegheny County, A-3986, Glassport Borough, 2.06 miles. Armstrong County, R-69, A 3031-3764, Parks and Gilpin Townships, 4.50 miles. Bradford County, R-20, Canton Borough, .35 mile. Erie County, R-87-258, Mill Creek and Harbor Creek Townships, Wesleyville Borough, 2.08 miles. Luzerne County, R-169, Bear Creek Township, 2.44 miles. Montgomery County, R-197, A 4278, New Hanover Township, 2 miles. Northampton County, 4-163, Sec. 3, Lower Mt. Bethel Township, 1.35 miles. Pike County, R-7, Sec. 1 and 2, Shohola, Dingman, Lackawaxen, Blooming Grove Townships, 10.98 miles.

School, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart School, Father Fink, Allentown, Pa. Brick, stone trim, steel, 3 stories and basement, 66x120 feet (heating, plumbing, electric reserved), built-up roof, hardwood floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, steam heat, electric light, metal lath, rolled steel sash, fire doors, iron stairs, ornamental iron work. Revised plans in progress.

Store (alts. and add.), Easton, Pa. Architect, E. H. Wenzelberger, 224 Northampton street, Easton, Pa. Owners, Bon Ton, Northampton street, Easton, Pa. Brick, steel, 4 stories, 30x40 feet, slag roof, pine floors, steam heat, electric light, metal lath, tile and marble work, rolled steel sash and skylights, metal doors, elevators (2). Architect taking bids due August 18th.

Residence (alts. and add.), Easton, Pa. Architect, William Mickler, Drake Building, Philadelphia. Owner, Edward Swift, 319

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Clinton street, Easton, Pa. Brick, veneer, 2½ stories, 60x70 feet, slate roof, hardwood floors, electric light, tile work. Architect taking bids due August 16th.

Laundry and Power House, Aubrey Avenue, Ardmore, Pa. Architect, private plans. Owner, St. Mary's Laundry, Ardmore, Pa. Stone, brick, concrete block, steel, one story and basement, 146x100 feet, slag roof. composition and cement floors, plumbing, metal lath, tile work, rolled steel skylights, hollow metal doors, ornamental iron work, bluestone. Owner taking revised bids.

Roadwork, Pennsylvania. Owner, Department of Highways, Harrisburg, Pa. Owners taking bids due August 24th 10 A. M. (S. T.) Deposit $2.50, no refund. Certified check.

Butler Co., A-3876, Parker Township. 4442 feet. Bituminous Penetration Surface Course on broken stone base. C. C. $1500.

Butler Co., A-4046, Clinton Township, 3914 feet. One course reinforced concrete. C. C. $1500.

Clarion Co., R-218, Sec. 1, Shippenville Borough and Elk Township, 10560 feet. One course reinforced concrete. C. C. SWTPP.

Clinton Co., R-105, Sec. 7, E. Kating and Noyes Township, 59,552 feet. Grading and Drainage C. C. $4000.

Clinton Co., R-105, Sec. 3 and 4, Chapman Grugan, Bald Eagle and Allison Township, Lock Haven City, 98171 feet, Grading and Drainage, $4000.

Cumberland Co., R-250, Lemoyne Boroough, 458 feet, One course reinforced concrete. $1000.

Delaware Co., A-3969, Springfield Township, 8332 feet. One course reinforced concrete. $2000.

Luzerne Co., R-169, Section 2, Bear Creek Township, 18,855 feet. One course reinforced conrete. $3000.

McKean County, R-211, A-3907 Eldred Township, Eldred Borough, 3610 feet. One course reinforced concrete, grading and drainage, $1500.

Bucks and Montgomery Cos., A-4307, 3771, 4067, Telford, West Telford and Souderton orough, Hilltown and Francisconia Township, 12038 feet. One course reinforced concrete. $2500.

Northampton Co., A-4203, Bushkill Township, 6500 feet. One course reinforced concrete. $2,000.

Venango Co., A-4214, Oakland Township, 12,993 feet. One course reinforced concrete. $2,000.

Westmoreland Co., 4-302, A-413. Ligonier Township, 6050 feet. One course reinforced concrete, $2,000.

Westmoreland Co., R-302, A-4129, St. Clair Township, 7900 feet. One course reinforced concrete, $2000.

Pennsylvania Contracts Awarded

Theatre, Stores (9) and Apartments (48), Garret road, Fairfield and Bywood avenue, Upper Darby, Pa., $1,250,000. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick, concrete, steel, 300x233x221 feet, cement and hardwood floors, ornamental iron work, rolled steel sash, plate glass, electric light, tile work. Contract awarded George Kessler Cont. Co., 1733 North Marvine street, Philadelphia.

Warehouse and Garage, Pottstown, Pa., $100,000. Architect, Samuel T. Wagner, Reading Terminal Building, Philadelphia. Lessees, W. Aychenback & Son, care of Reading Co., Twelfth and Market streets, Philadelphia. Brick, steel, 1 and 2 stories, 68x17 feet, slag roof, cement floors, electric light, ornamental iron work, rolled steel sash. Contract awarded W. Hampton, Pottstown, Pa.

Barn, Williamsport, Pa., $100,000. Architect, F. A. Rianhard, Masonic Temple Building, Williamsport, Pa. Owners, Pennsylvania Power & Light Co., 802 Hamilton street, Allentown, Pa. Brick, steel, 1 story, steam heat, electric light, slag roof, cement work. Contract awarded H. K. Ferguson, 4800 Euclid avenue, Cleveland, Ohio.

Laundry, Seventeenth and Fairview streets, Reading, Pa. Architect, E. Hickman, 148 South Fifth street, Reading, Pa. Owner, H. E. Heffner, care of architect. Cinder block, 1 story and basement, 70x105 feet, slag roof, concrete floors. Contract awarded Charles Schlegel, 528 Washington street, Reading, Pa.

Mill Building, Wilkes-Barre, Pa. Architect, Guilbert G. Jacobesky, Miners' Bank Building, Wilkes-Barre, Pa. Owners, Newark Silk Co., Paterson, N. J. Brick, steel, concrete, 2 stories and basement, 63x171 feet, slag roof, maple floors, hollow tile, steam heat, electric light, tile work, steel sash, skylights. Contract awarded M. L. Roth, 295 South Main street, Wilkes-Barre, Pa.

Boiler House, Chester, Pa., $75,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Aberfoyle Manufacturing Co., Chester, Pa. Brick, reinforced concrete, steel, 1 story, 57x70 feet, asphalt roof, cement floors, plumbing, safety treads, rolled steel sash, hollow metal doors, bond, ornamental iron work, ornamental terra cotta. Contract awarded William Provost, Jr., Chester, Pa.

Store (alts. and add.), Doylestown, Pa. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, William R. Mercer, Doylestown, Pa. New floors, carpentry and mill work, general alterations. Contract awarded J. Bailey, Doylestown, Pa.

Residence, Lansdowne, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, W. W. Roberts, Lansdown, Pa. Stone, brick, cut stone, steel, 2½ stories and basement, shingle roof, oak, pine and cement floors, electric light, plumbing, bond, ornamental iron work, cinder block, flagstone, area gratings. Contract awarded E. R. Hall, 34 South Seventeenth street, Philadelphia.

Residence (alts.), Wayne, Pa., $15,000. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owner, F. R. Diament, Wayne, Pa. General exterior alterations. Contract awarded Haverstick & Borthwick, Schaff Building, Philadelphia.

Store Building, 809-13 Hamilton street, Allentown, Pa. Architect, Harold Holmes, Detroit, Mich. Owner, S. S. Kresge, Detroit, Mich. Brick, steel, granite, cut stone, 2 stories and basement, 110x63 feet, slag roof, cement and maple floors, metal weather strip, waterproofing, ornamental iron work, bond, rolled steel sash and skylights, steam heat, electric light, metal lath, tile, marble and terrazzo work, Stedman floors, metal store fronts. Contract awarded Minton Schobell Co., 679 Arcade, Cleveland, Ohio.

Rectory, Wilkes-Barre, Pa. Architects, Mack & Sahn, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Bethel A. M. E. Congregation, Wilkes-Barre, Pa. Brick, 2½ stories, 25x40 feet, slate roof, hardwood floors, electric light, tile work. Contract awarded F. W. Eddy, Wilkes-Barre, Pa.

Public School (alts. and add.), East Lansdowne, Pa. Architect, J. C. S. Fernald, 5533 Wyalusing avenue, Philadelphia. Owners, School Board of East Lansdowne, Pa. Brick, concrete, steel, 1 story add., 40x50 feet, Bangor slate roof, maple floors, hardware, plumbing, painting and glazing, heating and electric extensions, metal lath, shoring. Contract awarded N. W. Bryan Co., 10 South Eighteenth street, Philadelphia.

Road Work, Pennsylvania. Owners, Department of Highways, Harrisburg, Pa. Contracts awarded:

Butler County, R-75, A 3872, Center Township, Charles Winters Cont. Co., Butler, Pa., $86,729.54.

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Schuylkill County, R-398, Frackville Borough, Butler Township, Rudolph & Delano, Tamaqua, Pa., $252,900.20.

Allegheny County, R-72, S-3, Shaler and Hampton Townships, Thomas Cronin Co., Pittsburgh, Pa., $22,501.05.

Lebanon County, R-423, A 4048, Jackson Township, Lane Const. Co., Meridan, Conn., $54,429.67.

Jefferson County, R-358, A 3385, Bell Township, Joe Wiesner & Son, St. Mary's, Pa., $59,582.40.

Beaver County, R-243, Sec. 3-A, Ohio Township, Glassgow Borough, Allison Harris Const. Co., East Liverpool, Ohio, $94,603.07.

Crawford County, R-295-447, A-4149, 4105, Summit and Summerhill Townships, Russell Brothers. Youngstown, Ohio, $190,227.80.

New Jersey Construction News

Hotel, Kentucky avenue, Atlantic City, N. J. Architects, The Gondos Co., 800 North Tenth street, Reading, Pa. Owners, Jefferson Hotel, care of architect. Brick, concrete, cut stone, steel, 7 stories and basement, 180x50 feet, slag roof, oak, pine and cement floors, elevators, safety treads, dampproofing, ornamental iron work, iron stairs, hollow metal doors, rolled steel sash, tile, marble and terrazzo work, metal lath, demolition, caulking, rubber tile floors, linoleum floors, composition floors, dumb waiters, metal partitions. Architects taking bids due August 13th.

Bank, Moorestown, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Burlington County Trust Co., Moorestown, N. J. Reinforced concrete, brick, steel, granite, limestone, 2 stories and basement, 59x93 feet, composition and slag roof, oak, pine and cement floors, hot air heat, electric light, metal lath, fire doors, shoring, waterproofing, iron stairs, ornamental iron work, bronze work, acoustical work, caulking, dumb waiter, linoleum floors, metal furniture and equipment, rubber flooring, bluestone, area gratings, bronze work, plumbing. Architects taking bids due August 20th.

Bank, Prospect street, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners Prospect National Bank, care of architect. Brick, stone, 1 story, 50x65 feet, slag roof, pine, marble and linoleum floors, steam heat, electric light, tile and marble work, vault work, bronze work, ornamental iron work, architectural stone. Architect taking bids due August 12th.

Office, Normandy Shores, N. J. Architect, A. L. Brooks, Humphrey Building, Atlantic City, N. J. Owner, Gilbert Harris, Virginia and Pacific avenues, Atlantic City, N. J. Brick frame, 1½ stories, 30x30 feet, tile roof, hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Apartment, Chelsea, N. J. Architect, W. B. Riebenack, Guarantee Trust Building, Atlantic City, N. J. Owner, name withheld. Brick, stone, steel, 5 stories, 38x83 feet, slag roof, hardwood floors, hollow tile, elevators, vapor heat, electric light, metal lath, tile work. Plans in progress.

Stores (3), Apartments (8), Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, J. R. Bole, Trenton, N. J. Brick, terra cotta, 3 stories, 34x60 feet, slag roof, hardwood floors, vapor heat, electric light, tile work, rolled steel sash and skylights, ornamental iron work. Architects will take sub-bids.

Factory (fire rebuilding), Trenton, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owner, D. Manson Sutherland, Broad Street Bank Building, Trenton, N. J. Brick, concrete, 2 and 1 stories, 50x175 feet, slag roof, concrete floors, electric light, rolled steel sash, fire doors, roof ventilators, ironstairs. Plans completed. Architects ready for bids.

Church, Highland Park, New Brunswick, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, All Saints' Church, New Brunswick, care of architect. Brick, hollow tile, 1 story and basement, 88x39 feet, slate roof, maple floors, oil burner, electric light, leaded glass, cut stone. Plans in progress.

School, Aura, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Elks Township School Board, Gloucester County, care of architect. Brick, steel, 2 stories, 135x60 feet, slate roof, maple floors (heating, plumbing, electric separate), hollow tile work, safety treads, roof ventilators, concrete stairs. Plans in progress. Ready for bids the end of month.

School (add.), Vincentown, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Southampton Township School Board, H. S. Stackhouse, Vincentown, N. J. Brick, steel, 1 story, 66x80 feet, slate roof, maple floors (heating, plumbing, electric separate). Architects taking bids due August 11th.

School (high), Gloucester, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Gloucester School Board, C. A. Fowler, Gloucester, N. J. Brick, limestone, cast stone, 3 stories, 125x136 feet. Owners taking bids due August 20th.

Doctors' Residences (6), Trenton, N. J. Architects, Department of Construction and Architecture, Trenton, N. J. Owners, New Jersey State Hospital for the Insane, Trenton, N. J. Low bidders: C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., $68,500. Plumbing, William J. Lee, Trenton, N. J., $5,750. Heating, H. J. Martindell, Trenton, N. J., $7,500. Electric, Peter G. Peifer, Yardley, Pa., $2,088.

Road Work, New Jersey. Owners, State Highway Commission, Trenton, N. J. Low bidders: Route 20, Section 6, bridges M. P. Nos. 13, 8 and 15.4, F. W. Schwiers, Jr., Co., 90 West street, New York City, $29,351.20. Rouee R, Section 34A, Cliffwood-Keyport Cut Off, Decker & Canning, Inc., Newark, N. J., $273,577.51.

New Jersey Contracts Awarded

Bank and Arcade Building, Tennessee avenue and Boardwalk, Atlantic City, N. J. Architects, Lockwood-Greene Co., No. 1 Pershing Square, New York. Owners Boardwalk National Corporation, Atlantic City, N. J. Brick, steel, stucco, 2 stories and basement, 377x100 feet, slag and tile roof, cement floors, hollow tile, elevators, plumbing, ironite waterproofing, dampproofing, rolled steel doors, iron stairs, ornamental iron work, rolled steel sash and skylights, hollow metal sash, marble and terrazzo work, metal lath, steam heat, celotex, demolition, cast stone, bronze work, allowance for lighting. Contract awarded George A. Fuller, Morris Building, Philadelphia.

School, Farmington, N. J. Architect, J. Vaughan Mathis, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Education of Egg Harbor, N. J., J. B. Brown, District Clerk. Brick, 1 story and basement, 80 feet 6 inches x 56 feet, slag roof, pine floors, hollow tile, roof ventilators, electric light, reinforced concrete stairs. Contract awarded John Green, Pleasantville, N. J.

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Caddy House, Professional Shop (alts. and add.), New Storage Building, Pine Valley, N. J. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owners, Pine Valley Golf Club, Pine Valley, N. J. Frame, 1 stoyr, shingle roof, cement floors, electric light. Contract awarded Ruben Gauntt, Berlin, N. J.

School, Deep Water, N. J. Architect, C. R. Peddle, 134 South Fourth street, Philadelphia. Owners, Boar dof Education, Lower Penn's Neck Township. Frame, 1 story, 136x56 feet (plumbing, heating and electric separate), slate roof, pine floors. Contract awarded Harry Cawley, Pennsgrove, N. J.

Residence, Atlantic City, N. J. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, Judge Ingersal, care of architect. Brick, stone, 2½ stories, 75x35 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded B. R. Fox, West Atlantic City, N. J.

Spanish Bungalows (50), West Atlantic City, N. J. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owner, B. R. Fox, West Atlantic City, N. J. Frame, brick, stucco, 1½ stories, 50x30 feet, hot water heat, electric, tile roof, hardwood floors, tile work. Contract awarded Watt Const. Co., West Atlantic City, N. J.

Residence, Ventnor, N. J. Architect, A. L. Brooks, Humphreys Building, Atlantic City, N. J. Owners, Bank Wickman, Mrs. S. B. Bank, St. Charles Place, Atlantic City, N. J. Brick, stone, 2 stories, 41x27 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded Wochner & Branden, 1408 Emerson avenue, Atlantic City, N. J.

Residence, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owner, E. F. Connolly, 1307 State street, Trenton, N. J. Brick, 2½ stories, 28x44 feet. Contract awarded S. W. Mather & Son, 300 Maple street, Trenton, N. J.

Road Work, New Jersey. Owners, State Highway Commission, Trenton, N. J. Awarded: Section 11, Route LE Extension, Newark, N. J. Stange Const. Co., 2031 South Broad street, Philadelphia, Pa., $1,416,910.

Building (alts.), Hightstown, N. J. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Peddie Institute, on premises. General alterations. Contract awarded Eric Jannsen, 857 East Girard avenue, Philadelphia.

Miscellaneous Construction News

Pro Cathedral (alts. and add. and Restoration), Wilmington Del. Architect, Geo. I. Lovatt, 225 S. Sydenham St., Philadelphia. Owner, St. Peter's Pro Cathedral, Rt. Rev. Bishop Fitzmaurice, Wilmington, Del. Architect taking bids due August 13th.

Residence and Garage, Westover Road near Kennett Turnpike, Wilmington, Del. Architect, Wm. Woodburn Potter, Real Estate Trust Bldg., Phila. Owner, Charles L. Candee, Wilmington, Del. Stone, stucco, half timber, 2½ stories, 30x40 feet, slate roof, hardwood floors, electric light, tile work, rolled steel sash. Ready for bids in a few days.

Rectory. Wilmington. Del. Architect, Geo. I. Lovatt. 225 South Sydenham St., Philadelphia. Owner, St. Peter's Pro Cathedral, Rt. Rev. Bishop Fitzmaurice, Wilmington, Del. Brick, 3 stories, 40x100 feet, composition or tin roof, hardwood floors, electric work, tile work. Plans in progress. Architect will take bids in about 3 weeks.

Miscellaneous Contracts Awarded

Hotel, 6-8-10 F street, N. W., Washington, D. C. Architect, E. L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Lawrence Gassenheimer, 2 F street, N. W., Washington, D. C. Reinforced concrete, brick, hollow tile, 7 stories and basement, 48x102 feet, cement and hardwood floors, electric light, elevators, rolled steel sash, tile work, steam heat, iron work. Contract awarded Baer & Scholz, Edmons Building, Washington, D. C.

(Continued from page 504)

a careful study of the materials available. We studied lime, cement, sand and special aggregates. We finally developed a specification which we thought was suitable and then the problem was to get sand which closely approached this specification, for it was, of course, impossible to get sand commercially that would meet every requirement and still be cheap enough to use. We have standardized on a local sand with satisfactory results. This we use for the first two coats. We purchase in large quantities and are able to get an attractive price because the dealer knows exactly how long it will take his trucks to bring a load to the plant and also that our storage is large enough to take sand at his convenience.

The common sand we use is the finer material from concrete sand, the largest particle passing a Number 8 screen and about 5% passing a 200-mesh screen. The approach to our plant is paved and this eliminates the danger of trucks getting stuck in the mud, which is a serious item in trucking costs. Naturally we benefit by this facility, which is not usually the case with sand deiveries direct to a housing operation.

Sand is used only in the scratch and brown coats of our stucco, as we find that a coarser material works better with the type of finish we use. For this finish coat we prepare our own aggregate by crushing Cape May pebbles, or "pea grit." These pebbels are extremely hard and break up very well in a roll crusher, set to one-fourth inch. There is a surprising small percentage of fines in this crushing and we have found by experience that screening is not necessary. This aggregate is very light in color and blends in with any of the colors we use to good advantage.

We always secure our stocks in large quantities. This applies to all materials used, and as a result we get a good choice. This is particularly true with respect to hair and fibre, which are important in both plaster and stucco. We use equal parts of hair and fibre, the hair running from ½ to 1½ inches long and the fibre from 2 to 3 inches in length. Both materials go through a picker which fluffs them up ready for use. The picking is done by the mixer operator in his spare time.

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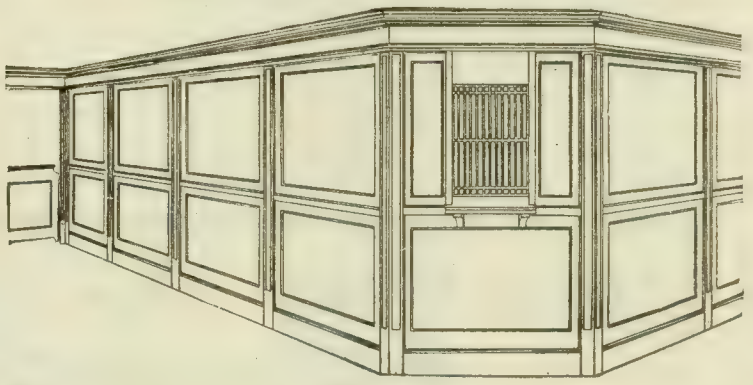
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All our plant proportions are by volume, as we have found that method of proportioning to be the most satisfactory. For the scratch coat stucco, we use a mix of about 2½ cu. ft. of lime putty, 1 sack of Portland cement and 8 cu. ft. of sand, to which we add 1½ pounds of hair and 1½ pounds of fibre. For the brown coat, which must be leaner, we use 2 cu. ft. of lime putty, 1 sack of Portland cement, and 8 cu. ft. of sand. We find that in stucco it is not necessary to add any hair or fibre to the brown coat. In the finish coat we use 2 cu. ft. of lime putty, 1 sack of Portland cement and 8 cu. ft. of crushed aggregate, without any hair or fibre.

A great deal of our stucco is applied over frame construction. On this type of house the frame is first covered with a layer of rubberoid, which we have found to be better than the ordinary building paper which is usually applied. Over this, galvanized wire is applied, furred out with wood lath on 12-inch centers. This insures a good thick coat of stucco, protecting the metal and eliminating cracks.

When we apply the stucco to concrete blocks it is highly important that the surface be wet first. After the scratch coat is applied we let it harden and dry for at least two days. If the scratch coat has been put on frame construction, it is not necessary to dampen it before browning, but if it is on blocks, we find that it must be wet before the brown coat can be applied. This is because of the high absorption of the blocks.

The brown coat is applied to bring the surface out and even up the job. Before it has hardened, the finish coat is put on and worked into the brown. The finish most commonly used is a rough drag or scrape finish, made by dragging the edge of the trowel over the surface. This work is done by the average plasterer without special training and gives very satisfactory results. We use cream, salmon, buff and gey tins in addition to the pure white. For the tints, mineral colors (oxides) are used, and for the pure white we use white cement instead of the grey cement ordinarily used.

The story of our plaster is quite similar to that of the stucco, except that we use slightly different proportions. Both metal and wood lath are used in our houses, the wood usually on the side walls and the metal on the ceiings. We have found it more economical to use a stiff lath—about 3.2 lbs. per sq. yd.—for the ceiling work, than to use the lighter grades. The reason is that there is less dropping and the men can work faster over a stiff surface. We have never had any trouble from plaster falling from either ceilings or walls.

For the scratch coat our mix is: 8 cu. ft. of sand, ½ sack of Portland cement and 4 cu. ft. o flime putty and 3 lbs. hair and fibre, or a 1:2 mix.

The brown coat mix is: 8 cu. ft. of sand, ½ sack of Portland cement, and 2 cu. ft. of lime putty and 1 lb. of hair, or a 1:3.2 mix.

All our plaster work is doubled-up, or laid-off. That is, the brown coat is applied immediately after the scratch coat, thus ensuring an absolute bond between the two coats. We use a different mix for the two coats in order to reduce cracking and also to reduce the cost, but feel that a rather rich scratch is necessary, for upon it depends the integrity of the whole job. However, we do not find it necessary to get a special class of plasterers for this work, as we find that with lime mortar such as we supply to the plasters there is no difficulty in securing good work, with the proper supervision. Their work as well as the material is uniform, and we find the same kind of plastering is done in the afternoon as in the morning. The mortar is always smooth, uniform and easy working and does not "pull their arms out." Every man covers a good yardage each day and we use a high percentage of apprentices. We secure a good plastering, and we are not troubled with falling ceilings, bulged side walls, or cracking.

We have had complaints at various times from some plasterers about the use of machine made mortar. Some of them claim that they get a better and harder wall when the mortar is prepared on the job, but we have found that the machine made mortar is more satisfactory, both as regards durability and economy. It has been necessary to clean house a couple of times with both the plasterers and the hod carriers, but we have never experienced any difficulty in getting men to take the place of those who were discharged, as we give them steady work practically the whole year round. At one time we discharged 65 plasterers and filled their places within a few days.

When one considers that for the past four years Mr. McClatchy has been building about two houses every working day or between 600 and 800 per year —you will realize the problem that must be met in supplying the men with mortar for plaster and stucco. At times well over a hundred plasterers are on the various jobs, and never less than forty plasterers are working.

At first we supplied the brick and stone masons with their mortar, but we found that it was more satisfactory for our central plant to just supply the plasterers, where a high-grade mortar is absolutely essential, than to attempt to also make the leaner mortar used by the masons. In an emergency, of course, where a small amount is required, we send mortar out to any part of the job, made as needed for the work under way.

We have found that lime stucco and lime plaster are very adaptable. They are easily prepared, easily worked, easily colored. Any desired texture may be secured without difficulty, ranging from the smooth finish to special trowel finishes and color blends. The stucco we use can be made up in any conceivable fashion. The Home Electric, which we built for the Sesqui-Centennial at Philadelphia is a lime stucco job, finished with three-color Spanish-style stucco. The only change in our specification was in the colors used and in the special trowel work work on the surface. Those of you who plan to be in Philadelphia can see thousands of lime jobs in good condition.

THE BRICK HOUSE COST DELUSION

One of the most inexplicable puzzles of present-day construction experience is the reluctance of the average American to concede the economy of the brick home. Invariably he magnifies its first cost.

Europe has been a land of brick houses for many centuries. Hundreds of the older and usually titled families of England, France, and Italy, still draw dividends from brick houses built by their ancestors often as many as a thousand years ago.

Many a tourist returns from abroad to relate with enthusiasm tales of the pic-

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turesquely beautiful old homes he has seen there. And seldom does he realize that they were built of common brick whose charm and appeal have only been enhanced by the mellowing effect of countless years of exposure to sunshine and storm.

The common brick is the Madame Recamier of all building materials, endowed with the rare and wonderful ability to grow old beautifully. In these remarkable Old World structures it has attained a dignified and venerable old age without reaching a state of decrepitude. It still stands staunchly and firm.

Its strength is burned in just as is its beauty.

Convincing and lasting beauty are not matters of money with the common brick. It is a most adaptable material. With it perfect taste and durability may be built into a cottage as easily and as cheaply as into the mansion of the millionaire.

Common brick are made today in almost every color and shade; in every degree of fineness and coarseness of texture. New types of wall, both beautiful in appearance and economical of construction, extend the range of their versatility. And incidentally very materially reduce the cost of the brick home.

More than ever before the architects and skillful bricklayers cleverly combine these vari-colored units in new and pleasing variations, just as an artist uses his paints, to create a surface with all the attractiveness of a master woven fabric.

Architects no longer hesitate to specify the common brick for the homes of their wealthiest patrons. Mansions built of this humble material dot the land. For the captains of industry and finance are finding common brick not only attractive but economical.

Many a man of average income has put aside forever his dream of a brick home through a mistaken idea of its cost. The fact is that any man who wants it may have a common brick home at a cost not exceeding six per cent. more than that of a frame house.

Within the next five years, through its inevitable natural economies, it will wipe out the difference between its cost and that of its nearest competitor.

And if the prospective builder will but ascertain how the best architects and builders regard common brick from the viewpoint of beauty and economy and fire safety and durability he will have nothing else.—*Building Economy.*

MOST CITIES NEED GREATER FIRE LIMIT EXTENSION

Lacking it they build only to increase the fire menace and the home owner's burden in taxes, insurance and depreciation

American cities are giving more attention at the present time than ever before to the matter of fire limits. A number of cities are waking up to the realization that they are all set for a magnificent bonfire. In many American cities the downtown business center, containing many so-called fireproof structures, is hemmed about with enough inflammable material to destroy even the best type of building once the match is applied. The burning of large areas for frame buildings produces a super-heated air which flows in currents and destroys whatever it touches.

Another very important reason directs attention to fire limits. The building up of large residential areas with a type of construction which produces a fire menace and at the same time depreciates rapidly is proving an increasing burden to the city's financing.

Many of these sections were good residence locations 15 or 20 years ago but, because all of the property was of the quick depreciating kind, values have gone down steadily, the old inhabitants have moved out, and two or three families are now crowded into a house that once was occupied by one family. Values have practically been charged off on the county duplicate, and these areas do not produce enough in taxable income to reimburse the city for improvements to streets, for lighting and policing and other public service.

W. R. Hopkins, city manager of Cleveland, in an address before the Chamber of Commerce of Cleveland, not long ago, called attention to this very situation as one of the big problems which the city has to face.

The extension of fire limits is the answer. If these same areas had been built up of sound construction, permanent materials, guaranteed against depreciation, they would not have gone down in character and become cheap slums. In many cases the original inhabitants would still be there and the property would be earning its way in the city budget.

Now comes the National Lumber Manufacturers' Association with the avowed policy of opposing extension of fire limits. In a recent bulletin to its membership this association said: "The effect of such legislation is to reduce the market for lumber and to increase the cost of building construction, since only masonry walled buildings may be built in fire limit areas." In another paragraph it says:

"The National Lumber Manufacturers' Association has made arrangements to send representatives at once to certain of the cities where conditions are reported as most objectionable."

Wherever opposition to the extension of fire limits appears it may be traced to the lumber influence. Every other interest in the city will be served by the extension of fire limits, and the lumber interest is more frightened than hurt.

The argument against the extension of fire limits, and the only one that can be used by even the most selfish opponent, is that it will increase the cost of building. It may increase the first cost of some buildings to require that they be built of masonry, but such regulation lowers the ultimate cost of all buildings. The masonry building is always the cheapest building in the long run, and the run doesn't have to be so long at that. A few repaintings and the annual repair bill on the other types of buildings quickly make up the difference in the first cost between masonry and frame.

The argument that fire limits add to the cost of building is not valid. Fire limits save money for the owner in three tangible ways. They save on the cost of the building ultimately, and that is what the owner is most interested in. They save him in depreciation and repair bills. They save money for everybody in the community in insurance and expense of fire protection.

There are no records to show that the average man, as a wage earner, in Philadelphia, or St. Louis, or Denver, or Salt Lake City or El Paso, has any great advantage over the average worker in any other city in the United States. Yet in these cities practically every family lives in a brick building. The lowest paid man in the cities, if he has a home at all, has a brick home, because there are no other kind.

The fact that these cities, and many other smaller cities in the United States, are built up almost exclusively of brick homes, certainly takes the wind out of the sails of those who argue that good construction puts a hardship upon the small home builder.

Chicago, which was originally a frame city, is continually adding to its fire limits, until today the greater part of the city excludes inflammable construction. St. Louis and Denver for many years have had restrictions against inflammable construction. Many other cities, including Salt Lake City, simply built well from habit, the pioneers having set the example. The habit of building with brick has long existed in Philadelphia, Baltimore and Washington. Still these cities prosper. They have smaller fire losses and the wage earners live in safe homes.

The only valid objection that anyone can raise to an extension of fire limits within a city is that it will lessen the sales of lumber. It will make the forests last a little longer. It will tend to slow up the advancing prices of lumber so that for a few more years it will be available to the builder of moderate means for interior trim and framing of his home. Extension of fire limits puts a city in the path of lower insurance rates, reduced cost of fire protection, and reduction of the great economic waste from depreciation and from fire loss.—*Building Economy.*

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
Architectural Cast Cut Stone Co.....Westmont, N. J.

ARCHITECTURAL IRON WORK
Quaker City Art Metal Works,
2445 N. Second St., Phila.

AREA GRATINGS
Arrowhead Iron Works of Pa., Inc.,
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Irving Iron Works.....1015 Chestnut St., Phila.

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Weil, J. H., Co. .....1315 Cherry St., Phila.

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Livezey, John R. Glenwood Ave. w. of 22nd St., Phila.

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H. M. & C. M. Siner..Church and Tacony Sts., Phila.
Excelsior Brick & Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving).
Ketcham, O. W. .....121 N. 18th St., Phila.

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Mitchell Bros. .....2125 Race St., Phila.
Joseph Rotornado.....4740 Milnor St., Phila.

BUILDERS' SUPPLIES.
Service Supply Corporation,
20th and Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

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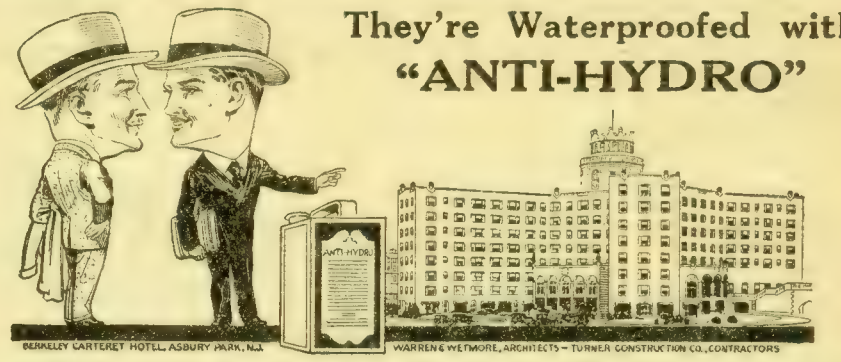
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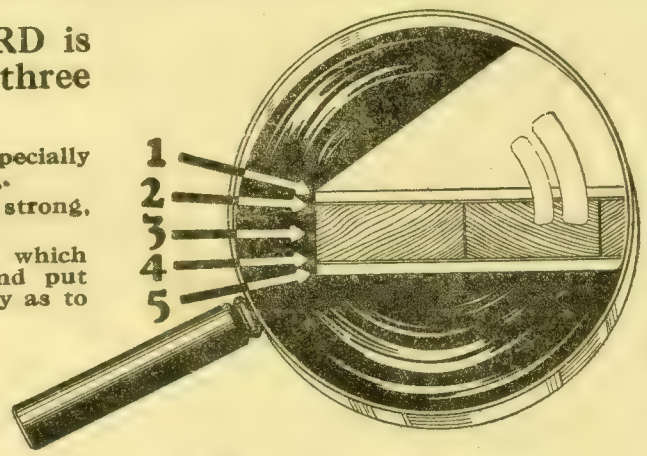
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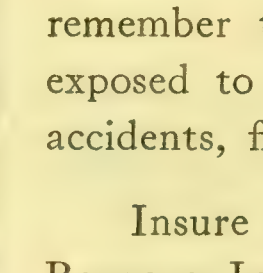
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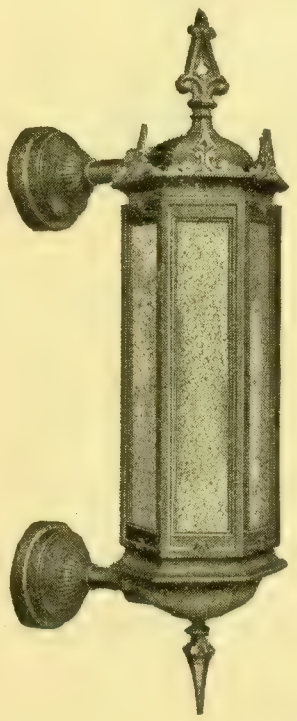
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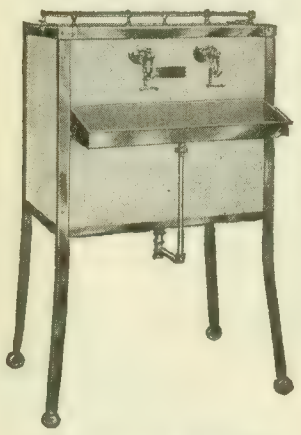
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As The Editor Sees It

WHERE LARGE INVESTMENT IN HEATING PROVED A MANUFACTURING ECONOMY

Why a forced hot-water system was chosen for Ford's new plant at St. Paul

By E. H. WHITTEMORE,

Stone and Webster, Incorporated, Boston

Reprinted by special permission from "Factory," the Magazine of Management

In the modern manufacturing plant, whatever the character of the finished product, there is nothing more important in connection with the general design than thorough consideration of the proper assignment of space for equipment and machinery. Whereas this has already become the function of a profession more familiar to this generation than to the last—efficiency engineering—it must always of necessity be uppermost in the minds of those responsible for the design of heating, ventilating, and other building service systems.

In a plant similar to the one recently erected by the Ford Motor Company at St. Paul, Minnesota, and used both for the manufacture of parts and for the assembly of automobiles, several systems of heating suggest themselves as being capable of producing the desired results. After much consideration and careful study, it was decided that a forced hot-water system using direct radiation in the form of pipe coils and wall radiators would prove the most desirable. The wisdom of this decision might be questioned by many because of what might appear to be excessive first cost, but when all other factors are taken into consideration, particularly when it is realized that such a system does not occupy any space required for the most efficient arrangement of machinery and manufacturing equipment, and also that the maintenance and operation of the system costs considerably less, the reasons for its use become more apparent.

The building itself is of unusually large dimensions for the one-story-monitor and saw-tooth type, having an overall length of nearly 1,400 feet and being 600 feet wide. Except for a relatively small section in one corner, and an electrical substation near the center, the entire structure is one large room. There are 327,740 square feet of glass surface, the greater portion being in the roof construction. A wide range of building material was used, varying from plain brick walls to cement-tile roofing, and a wide range of heat-loss factors was used in the design computations.

The entire scope of the problem presented in the design of this heating system cannot entirely be appreciated until it is realized that temperatures as low as 30 degrees below zero have occurred in this locality, and since the building is located on a high bluff above the Mississippi River, there is a general exposure to strong winds.

The greater part of the radiation is in the form of one-and-one-half inch pipe coils of the miter type, suspended horizontally above the bottom chord of the roof trusses, thus affording the maximum amount of clearance throughout the entire building for the installation of manufacturing equipment and machinery. While this may seem to be an inefficient location for radiation of this type, as it would be in the more common type of multi-story building, the natural air current circulation in a building of the type of the Ford plant is such as to afford satisfactory natural heat distribution throughout the building.

Wall radiators have been installed on the exterior walls below the windows, in the usual manner.

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Direct Radiation Reduced in Showroom

In the office section of the building both wall and column-type radiators were used, as in the ordinary installation for such service, with one exception, however. On the extreme northwest corner of the building is located a showroom having unusual glass areas for the purpose of merchandise display. In order to eliminate much of the required direct radiation from this room, unit heaters were installed in an adjacent room. Air is heated and recirculated through grilled openings in the intervening wall.

The great length and symmetrical design of the building afforded an opportunity to design the piping system in such a way that an unusually efficient system of water circulation was obtained. This feature alone often becomes the critical point in the design of any forced hot-water heating system. Conditions at the Ford plant were particularly favorable to the design of this part of the installation, since pipe runs could be made straight for nearly their entire length, thus reducing friction to a minimum, and since both coils and radiators could be so proportioned in size as to produce the desired friction load to assist in equalizing the entire circulation of the water.

When it is considered that the amount of coal required to supply the amount of energy necessary to warm this building during the normal year would be sufficient to meet the entire demands of a fair-sized community, it is only natural to endeavor to effect every possible economy. This thought has been uppermost in the minds of the engineers in designing the boiler plant. The original heat energy is generated in the form of steam. Water-tube boilers are used, burning powdered coal; and turbine-driven electric generators have been installed as a standby supply for power service. Steam is bled from these turbines at the 10-pound stage. Steam mains carrying this pressure and other mains with full boiler pressure are carried across an enclosed bridge and through a concrete tunnel running underneath and across the entire width of the building. The tunnel is also used for coal-conveying equipment, fuel being unloaded from railroad cars directly into a hopper, feeding the conveyor which carries the coal to the power-plant.

Pump and Heater Room below Floor

A pump and heater room is located below the floor, near the center of the building and adjacent to the pipe tunnel. This room accommodates two low-pressure closed heaters, two high-pressure closed heaters, one motor-driven and two turbine-driven centrifugal pumps, one turbine-driven and one motor-driven condensate pump, two expansion tanks, an air compressor, and the necessary control pipe and valves for the operation of this equipment. The low-pressure heaters ordinarily used are of 500 gallons per minute capacity, based on raising the temperature of water from 170 degrees to 200 degrees Fahrenheit when supplied with steam at 5,000 pounds gage pressure. One high-pressure heater of the same capacity has been so connected into the piping that it may be used as a low-pressure heater, should one of the others be out of commission; or as a booster heater, should it be found desirable to raise the temperature of the water above that of normal operation. The other high-pressure heater is designed for use whenever it is desirable to operate the heating system for the office section, independently of the other portion of the building. The low-pressure heaters have cast-iron shells, while the high-pressure heaters are of steel, all being of the horizontal type with tubes of seamless drawn copper.

The main circulating pumps, two of which are steam-turbine driven and one motor-driven, are of 5,000 gallons per minute capacity each, whereas a separate steam-driven and a motor-driven pump have been installed for independent use of the office section. Pump turbines are designed to operate at 125 pounds gage pressure and 25 pounds back pressure. Electric motors are of the constant-speed type, operated at 440 volts, three phase, alternating current.

To handle the condensation from the heaters, a receiving tank has been installed, having in connection with it one motor-driven and one turbine-driven condensate pump. These are of the same type as the circulating pumps, with a capacity of 450 gallons per minute, and a discharge head of 28 feet. From these pumps the condensate is delivered to a large surge tank located in the steam station, which also acts as a storage reservoir for condensate collected throughout the entire boiler-plant. From this storage reservoir, condensate is fed directly to the feed-water heater by gravity.

The main expansion tank is 10 feet in diameter and is 15 feet long, having a capacity of approximately 9,000 gallons, being built of black steel with dished heads. This tank is buried beneath the

(Continued on Page 531)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Garage, Bainbridge street and Orianna avenue, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, J. Bockel, 315 Bainbridge street, Philadelphia. Brick, steel, 2 stories, 46x82 feet, 16x50 feet, slag roof, cement and wood floors, steam heat, electric light, elevators. Plans in progress.

Manufacturing Building, Noble and Hamilton streets, above Thirteenth street, Philadelphia. Architect, P. S. Tyre, 114 South Fifteenth street, Philadelphia. Owner, R. H. Greenburg, Morris Building, Philadelphia. Brick, stone, steel, concrete, 7 stories and basement. Plans in progress.

Residence (alts. and add. to Apartment and Store), 554 East Washington lane. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Edwin C. Emhardt, care of architect. General alterations and additions. Plans in progress.

Apartment House, Johnson, Morton and Duval streets, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, John A. Curley, Plaza Hall, Forty-third and Chestnut streets, Philadelphia. Brick, steel, limestone, concrete, 4 stories, 200-family apartments. Plans in progress.

Apartment House, Forty-seventh and Osage avenue, Philadelphia. Architects, Stetler & Deysher Co., 1015 Chestnut street, Philadelphia. Owners, Brown Brothers Realty Co., 23 South Sixteenth street, Philadelphia. Brick, 4 stories, steam heat, electric light, tile and marble work, slag roof, hardwood floors. Plans in progress.

Apartment House, 204-06 South Thirteenth street, Philadelphia. Owner, Richard J. Seltzer, Fifteenth and Spruce streets, Philadelphia. Details undecided. Work contemplated.

Store and Apartments, 211-13 South street, Philadelphia. Architect, William L. Charr, Victory Building, Philadelphia. Owner, care of architect. Steel, brick, 3 stories, 27x52 feet, slag roof, maple and pine floors, hot water heat, electric light, tile and marble work, metal lath, maple floors, electric light, tile and marble work, metal lath, maple floors, metal ceilings, shoring, bond, store fixtures, metal bulks. Plans completed.

Apartment House (266 apartments), vicinity Sixty-ninth and Chestnut streets, Philadelphia. Architect, Guy B. Johnson, 237 North Sixteenth street, Philadelphia. Owner, name withheld. Brick, cut stone, steel, 10 stories and basement, slag roof, oak and pine floors, elevators, steam heat, electric light, metal lath, tile work, bond, ornamental iron work. Plans in progress.

Bakery (add.), 2801 Hunting Park avenue, Philadelphia. Owners, Tasty Baking Co., Herbert C. Morris, president, on premises. Brick and reinforced concrete, 5 stories. Work contemplated.

Apartment House, Locust and Hanson streets, Philadelphia. Architect, not selected. Owner, L. A. J. Robbins, North American Building, Philadelphia. Brick and concrete, 3 stories, steam heat, electric light, tile and marble work, slag roof, hardware. Work contemplated.

Manufacturing Building, Twenty-eighth and Hunting Park avenue, Philadelphia. Architect, not selected. Owners, Moore & White Co., J. Atwood White, president, Fifteenth and Lehigh avenue. Work contemplated.

Church (fire repairs), Twelfth and Lehigh avenue, Philadelphia, $150,000. Architect, not selected. Owners, Cookman Methodist Episcopal Church, Rev. E. Bawden, 1209 West Lehigh avenue, Philadelphia; Frederick Pye, president of Board of Trustees, 909 Fairmount avenue. Will rebuild as soon as fire insurance is adjusted.

Apartment House, 360 East Tulpehocken street, Philadelphia. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, Maurice H. Zimmanne, Real Estate Trust Building, Philadelphia. Brick, steel, 3 stories, 44x172 feet, slag roof, steam heat, electric light. Work contemplated.

Warehouse and Office, Forty-ninth street, East of Schuylkill River, Philadelphia. Architect, private plans. Owner, Lewis B. Hoffman, 1346 South Fifty-first street, Philadelphia. Brick, 1 story, 50x80 feet. Plans in progress.

Residence (alts.), 310 South Smedley street, Philadelphia. Architect and owner, J. L. Connaroe, 225 South Sydenham street, Philadelphia. Interior alterations, new bath room and kitchenetee. Plans in progress. Architect will take bids in a few days.

Factory, 105 Kenilworth street, Philadelphia. Architect, Herman H. Kline, Bulletin Building, Philadelphia. Owners, Greenberg & Sandler, care of architect. Brick, reinforced concrete, 2 stories and basement, 16x54 feet, slag roof, cement floors, elevators, steam heat, electric light, rolled steel sash. Architect taking bids due as soon as possible.

Store and Apartment (alts. and add.), 2121 Walnut street, Philadelphia. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owner, Charles K. Fein, 916 Pine street, Philadelphia. Demolition, excavation, brick work, cut stone, architectural terra cotta, reinforced concrete, metal lath, plastering, iron work, marble and tile work, carpentry and mill work, oak floors, kalamein doors, morene finish leaded glass, painting and glazing, aquae stone. Revised plans in progress. Ready for bids in a few days.

Marshall Court Apartments, Marshall street and Northeast Boulevard, Philadelphia. Architect, Guy B. Johnson, 237 North Sixteenth street, Philadelphia. Owner, David M. Elin, 4339 North Sixth street, Philadelphia. Brick, cast stone ,steel, 4 stories and basement, 40x60 feet, slag roof, oak and pine floors, steam heat, electric light, metal lath, tile work, ornamental iron work. Plans in progress. Ready for bids in two weeks.

Apartment House, 1422 North Sixteenth street, Philadelphia. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, J. De Spipio, on premises. Brick, 3 stories, 20x90 feet, hardwood floors, steam heat, electric light, tile and marble work, oil burners. Plans about completed. Architect wil ltake bids in one week.

Alterations and Additions, 2122 Locust street, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Beckman Brothers & Co., 45 South Seventeenth street, Philadelphia. Brick, steel, rinforced concrete, 4 stories and basement, 32x32 feet, slag roof, electric light, metal lath, tile and oak and cement floors, elevators, rolled steel sash and skylights, hollow metal doors, ornamental iron work, demolition, incinerators (kitchen and kitchenette equipment, built-in beds, ranges, refrigerators, heating, plumbing, linoleum floors reserved). Architects taking bids due August 23rd.

Apartment House (60 apartments), Chew street and Church lane, Philadelphia. Architect, Guy B. Johnson, 237 South Sixteenth street, Philadelphia. Owner, Philip E. Glassman, 3321 Arlington avenue, Philadelphia. Brick, limestone, steel, 3 stories and basement, 176x146 feet, irregular, slag roof, pine and cement floors, steam heat, electric light, tile and marble work. Owner taking bids.

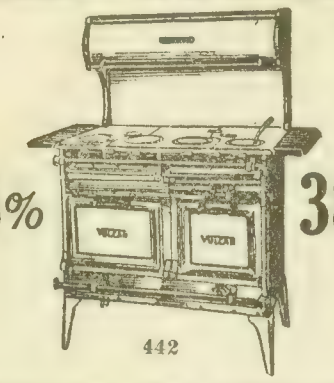
Apartment Houses (4), Residences (25), Sixteenth, Grange and Conlyn streets, Philadelphia. Architects, Stetler & Deysher, 1015 Chestnut street, Philadelphia. Owner, Max Chipin, 5701 North Seventeeth street, Philadelphia. Brick, apartment houses, 3 stories, residences, 2 stories, irregular in size, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owner will take sub-bids in one week.

New Building, Mt. St. Joseph School, Sunset avenue and Germantown avenue, Philadelphia. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, Sisters St. Joseph, Mother M. James, Superior, Chestnut Hill. Stone, brick, limestone, steel, 2 stories and

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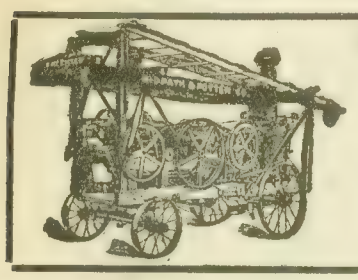

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New Store Building, 5611-13 North Fifth street, Philadelphia. Architect, Edwin L. Rothschild, 215 South Broad street, Philadelphia. Owner, Zola Rosenfeld, 2900 North Fifth street, Philadelphia. Brick, cut stone, concrete, steel, 3 stories and basement, 220x40x90 feet, slag roof, reinforced concrete, composition and cement floors, elevators, painting and glazing, waterproofing, iron work, kalamein doors, rolled steel sash and skylights, tile and marble work, metal lath, steam heat, electric light, oil burners. Owner taking bids due as soon as possible.

Service Building, 819-21-23 Walnut street, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut street, Philadelphia. Owner, Joshua Bodek, on premises. Brick, hollow tile, cut stone, steel, 6 stories and basement, 60x122 feet, slag roof, cement floors, elevators, plumbing, terra cotta coping, ornamental iron work, demolition, bond, fire doors, rolled steel sash and skylights, metal lath, steam heat, electric lighting. Architect taking bids due August 22nd.

Manse, Twentieth and Chelten avenue, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Covenant Presbyterian Church, Rev. H. W. Hathaway, Twentieth and Chelten. Stone, 2 stories, 51x26 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Architects taking bids due as soon as possible.

Garage, 821 North Second street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Morris Gedrich, care of architect. Brick, steel, 2 stories, 98x127 feet, slag roof, cement floors, steam heat, electric light. Architect taking bids.

Parish House (alts.), Twenty-first and Chestnut streets, Philadelphia. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, First Unitarian Church, on premises. Architects taking bids due as soon as possible.

Theatre, Kensington avenue and Cumberland street, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, The Stanley Co., 1916 Race street, Philadelphia. Brick, terra cotta, stone, steel, 1 story, 120x150 feet, electric light. Architects taking sub-bids due August 25th.

Apartment House (add.), Wissahickon avenue and School lane, Philadelphia. Architect, private plans. Owners, Alden Park Manor Co. and Kenneth M. DeVos Co., on premises. Brick, steel, stone, 13 stories, 160,000 square feet, steam heat, electric light, metal lath, tile, marble and terrazzo work, composition and tile roof, hardwood floors, hollow tile, elevators, ornamental iron work. Plans in progress for 3 additional units. Plans about completed for one unit. Owners will be ready for sub-bids September 1st.

Residences (42), Montague and St. Vincent's streets, Philadelphia. Architect, private plans. Owner, Charles Orth, Keystone and Unruh streets, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

Pumping Station, Wheatsheaf lane and Richmond streets, Philadelphia. Owners, Department of Public Works, 416 City Hall, Philadelphia. Brick, steel, 1 story, 139x64 feet (plumbing, heating, electric equipment, mechanical equipment separate), asbestos roof, cement floors, marble work, rolled steel sash, steel doors, bond, ornamental iron work, sani-onyx partitions, granolithic floors, steel casement doors, metal partitions, steel gratings. Owners taking bids due September 1st.

Apartment and Stores, Seventh and Bainbridge streets, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, name withheld. Brick, cut stone, steel, 2 and 3 stories and basement, slag roof, 50xx75 feet, oak, pine and cement floors, steam heat, electric light, metal lath, tile work, bond, ornamental iron work. Architect taking bids due as soon as possible.

Office Building (int. alts.), 10 South Eighteenth street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, J. C. Fuller, on premises. Changing office partitions. Architect taking bids due August 19th.

Store (ext. alts.), 1812 Market street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, J. C. Fuller, 10 South Eighteenth street, Philadelphia. Changing store fronts. Architect taking bids due August 19th.

Residences (22), Massey street, North of Buist avenue, Philadelphia, $100,000. Architect, private plans. Owner, John Gallagher, 709 Packard Building, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (4), North side Hartel street, West of Castor avenue, $5,000 each. Architect, private plans. Owners, Castor Highland

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Development Corporation, on premises. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (16), Sixth and Widener Place, Philadelphia, $65,000. Architect ,private plans. Owner, Joseph Cutler, 1811 North Seventh street, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, electric light. Permit issued.

Residences (28), Tackawanna street, North of Comly street, $103,600. Architect, private plans. Owners, W. H. & J. W. Dubbs, 2924 Howell street, Philadelphia. Brick, 2 stories, 15x36 feet, 12x9 feet, slag roof, hot water heat, electric light, hardwood and pine floors. Permit issued.

Store, Southeast Corner York road and Chelten avenue, Philadelphia, $3,000. Architect, private plans. Owner, Vincent Jafolla, 1138 Arrott street, Philadelphia. Stone, 1 story, 43x24 feet. Permit issued.

Residence, North side Dyre street, East of Castor road, $12,000. Architect, Samuel D. Milnor, 1117 Foulkrod street, Philadelphia. Owner, care of architect. Cinder block, 3 stories, 42x22 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (2), 4345-47 Almond street, Philadelphia, $7,000 total. Architect, private plans. Owners, Bogucki & Lashka, 2414 Orthodox street, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (6), Tyson and Gillespie streets, Philadelphia, $4,500 each. Architect, private plans. Owner, Lewis Dietrich, 6948 Torresdale avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residence (add.), 4815 Roosevelt Boulevard, Philadelphia, $3,200. Architect, private plans. Owner, J. J. Needham, on premises. Concrete and brick, 2 stories add., 14x30 feet 6 inches, slag roof, pine floors, electric light. Permit issued.

Residence, South side St. Vincent street, East of Summerdale avenue, $3,200. Architect, private plans. Owner, M. S. Szarlak, 4027 Fairhill street, Philadelphia. Frame, 1 story, 24x36 feet, pine floors, electric light. Permit issued.

Garage and Store, 658 West Johnson street, Philadelphia, $52,000. Architect, private plans. Owner, Nathan Benedict, 717 West Moyamensing avenue, Philadelphia. Brick, 2 stories, 19x33 feet, 77x137 feet, slag roof, cement and wood floors, electric lighting. Permit issued.

Residences (2), Southeast Corner Verree road and Chandler street, $7,000 each. Architect, private plans. Owner, Edwin Davis, 7301 Rising Sun avenue, Philadelphia. Frame, 2 stories, 16x46 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

Stores and Apartments (7), S. E. Cor. York Road and Rubican Ave., Phila. Architect, not selected. Owner, Nathan N. Leader, 6750 York Road, Phila. Brick Work contemplated.

Garage, 5425 Summer street, Phila., $4,000. Architcet, private plans. Owner, Mrs. Nellie M. Borel, 5426 Vine St., Phila. Brick, 1 story, 25x118 feet, cement floors. Permit issued.

Factory (alts.), 2010-22 N. 10th street, Phila., $5,000. Owner, Phila Asbestos Co., on premises. General alterations. Permit issued.

Church (alts. and add.), 33rd and Chestnut streets, Phila. Architect, Bureau of Architects, M. E. Church, 17th and Arch streets, Phila. Owner, Asbury M. E. Church, Wm. Boyd, 250 W. Tulpehocken street, Phila. Brick, cut stone, steel, 2 stories and basement, 20x28 feet, slag roof, (painting and glazing reserved), pine and linoleum floors, plumbing. steam heating, electric light, tile work, metal lath, ornamental iron work. Owners are taking sub-bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, 3047-49 Witte street, Phila., $4,250. Owner, Joseph Markey, Sr., 3046 Janney St., Phila. Brick, 1 story, 32x58 feet, electric light, cement floors. Contract awarded W. F. Chapman, 1805 W. Venango St., Phila.

Home for Aged(Alts), Monument E. of Belmont Ave., $250,000. Owner, Methodist Home for Aged, on premises. Brick steel, 4 stories, 40x123 feet, steam heat, electric light, cement floors, slag roof, steel sash. Contract awarded Wm. Steele & Sons, 219 N. Broad St., Phila.

Building (alts.), Moore School of Electric engineering, 33rd and Walnut Sts., Phila. Architect, Paul P. Cret, Otis Building, Phila. Owner, University of Penna., Mr. P. Wilson, 34th and Spruce Sts., Phila. Bond, demolition, concrete, cement, limestone, granite, brickwork, carpentry and millwork, iron work, terrazzo work, marble work, hollow metal sash, rolled steel skylights, metal lath, plastering, painting, glazing, hardware, roof repairs. Contract awarded H. E. Baton, 1713 Sansom St., Phila.

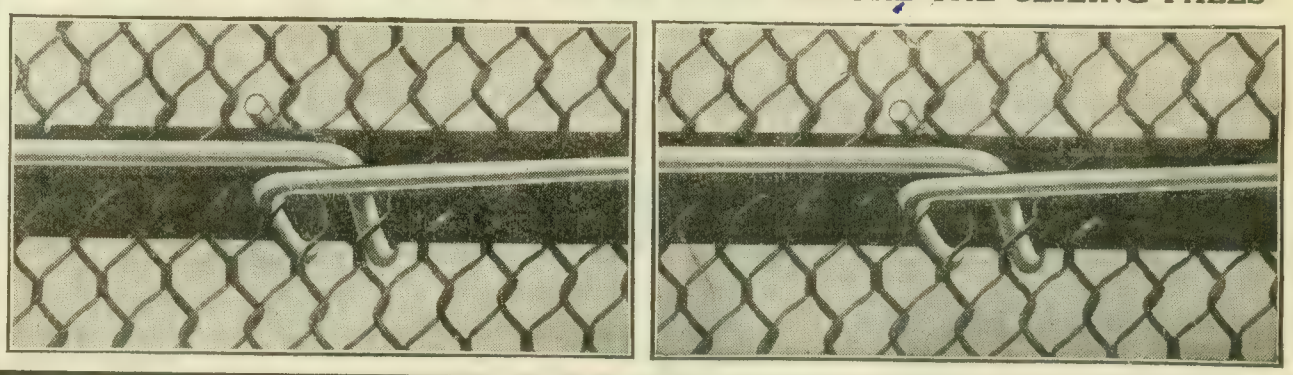
Philadelphia General Hospital, Thirty-fourth and Pine streets, Philadelphia. Architect, P. H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Health, W. Krusen, 584 City Hall. Contract awarded: F. W. Mark Cont. Co., Commercial Trust Building, $543,900. Plumbing, N. Connolly, 1404 North Eighteenth street, Philadelphia, $39,990. Heating, William Anderson, 600 Schuylkill avenue, Philadelphia, $57,475. Electric, Ross Elec. Co., 106 Fairmount avenue, Philadelphia, $34,457.

Church, 6511 Lincoln Drive, Philadelphia. Architect, Edmund B. Gilchrist, 1618 Latimer street, Philadelphia. Owners, Unitarian Congregation of Germantown, on premises. Stone, cut stone, 1 and 2 stories and basement, 60x42 feet, wing 89x30 feet, wing 48x30 feet, copper and slag roof, pine floors, ornamental iron work, rolled steel sash, flagstone, bluestone. Contract awarded R. C. Ballinger Co., 925 Walnut street, Philadelphia, not signed.

Residence and Garage, Woodbine avenue near Montgomery avenue, Philadelphia. Architect, Alex. Mackie Adams, 1012 Walnut street, Philadelphia. Owner, John J. Jacoby, 2025 Market street, Philadelphia. Stone, 2½ stories and basement, 64x38 feet, wing 24x24 feet (plumbing, heating, electric, marble and tile work reserved), variegated slate roof, metal weather strip, ornamenta@l iron work, flagstone, steel casement sash, linoleum floors. Contract awarded J. D. Lengle, Wayne, Pa.

Store Building, 1431-33 Susquehanna avenue, Philadelphia. Architect, Louis Joseph Tonk, Fuller Building, Philadelphia. Owner, M. L. Goodrich, Bailey Building, Philadelphia. Brick, concrete, steel, 1 story and basement, 42x28 feet, hot water heat, electric light, metal lath, slag roof, pine and cement floors, metal ceiling, ornamental iron work, plate glass. Contract awarded L. Rosengarten, Otis Building, Philadelphia.

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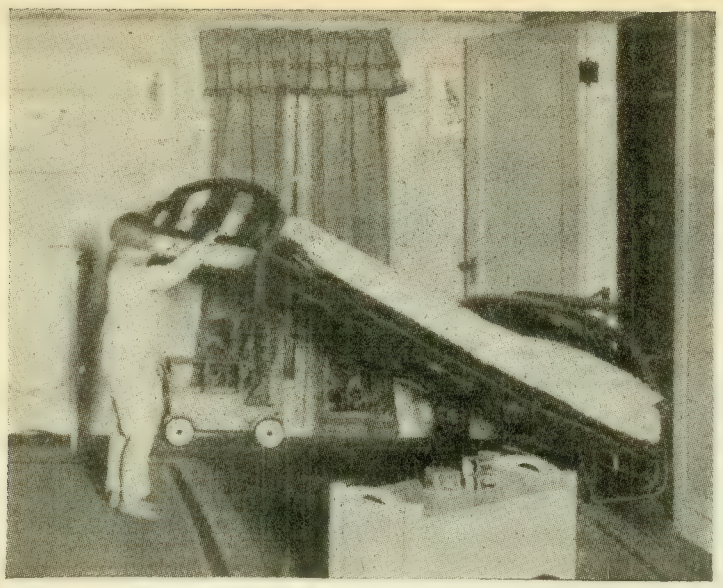
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Factory, Hunting Park avenue and Stokley street, Philadelphia, $1,000,000. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Edward G. Budd Mfg. Co., Twenty-fifth and Hunting Park avenue, Philadelphia. Reinforced concrete, brick, steel, 5 stories. Preliminary plans in progress. Contract awarded Wark & Co., 1600 Walnut street, Philadelphia.

Store Building, Ontario, Castor and Russell streets, Philadelphia. Architect, David Supowitz, 929 Chestnut street, Philadelphia.

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Church (add.), Rising Sun avenue and Devereaux street, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Williams' Roman Catholic Church, on premises. Stone, 1 story, 47x86 feet, slag roof, pine and cement floors, steam heat, electric light. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

Church (alts.), Eleventh and Lehigh avenue, Philadelphia. Architects, Charles W. Bolton & Son, 1505 Race street, Philadelphia. Owners, Gaston Presbyterian Church, on premises. Plastering, carpentry and mill work, painting and glazing, hardware, electric light. Contract awarded George Kessler Const. Co., 1733 North Marvine street, Philadelphia.

Store Building (alts. and add.), 1209-11 Chestnut street, Philadelphia. Architects, Gravell & Hall, Otis Building, Philadelphia. Owner, name withheld. Brick, concrete and cement work, cut stone, iron work, bronze work, mill work, carpentry and slag roof, electric work, painting and glazing, marble and tile work, plumbing, steam heat, electric work, elevators. Contract awarded David Lutz & Co., Twenty-third and Chestnut streets, Philadelphia.

Store (alts. and add.), 2101 North Sixty-third street, Philadelphia. Architect, private plans. Owner, Theodore Campbell, 2101 North Sixty-third street, Philadelphia. Brick, 1 story, steam heat, electric light, tile and marble work, slag roof, maple floors, new store front and general alterations. Contract awarded Milton W. Young, 2037 North Sixty-third street, Philadelphia.

Alterations, 833 Market street, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Blauner, Inc., on premises. Painting and glazing, plastering, linotile floors. Contract awarded Roberts & Roller, 1700 Walnut street, Philadelphia.

Residence, 635 Bainbridge street, Philadelphia, $12,000. Architect, private plans. Owner, Gregarcio Geraci, 630 Bainbridge street, Philadelphia. Brick, 3 stories, 23x28 feet, 18x27 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to Empire Cont. Co., 2002 South Twelfth street, Philadelphia.

Residence (add. and alts.), 7801 Cresheim road, Philadelphia, $8,750. Architect, private plans. Owner, Philip B. Fisher, on premises. Brick, 3 stories add., 19 feet 10 inches x 24 feet 4 inches, general alterations. Contract awarded to William J. Ryder, 1725 Sansom street, Philadelphia.

Booster Station, Northeast Corner Castor and Creston streets, Philadelphia, $7,500. Owners, United Gas Improvement Co., Broad and Arch streets, Philadelphia. Brick, 1 story, 17 feet 10 inches x 23 feet 6 inches. Contract awarded to J. H. Terry & Co., Drexel Building, Philadelphia.

Storage Building (alts.), 3105 West Girard avenue, Philadelphia. Architect, private plans. Owner, Charles Young, 3103 West Girard avenue, Philadelphia. General alterations. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Hall, Southwest Corner Orthodox and Tacony streets, Philadelphia, $16,500. Architect, private plans. Owners, St. Josephat's Church, on premises. Brick, 2 stories, 36x55 feet 6 inches. Contract awarded to M. Baranowsky, 4332 North Sixth street, Philadelphia.

Manufacturing Building (add.), 3227 North B street, Philadelphia, $7,000. Architect, private plans. Owners, Wittman-Moriarty Co., on premises. Brick, 1 story add., 72 feet 2 inches x 50 feet 9 inches. Contract awarded to William F. Newbery, Otis Building, Philadelphia.

Apartment House (alts.), 720 North Forty-fourth street, Philadelphia, $3,000. Architect, private plans. Owner, Mrs. Sergeant, 723 North Forty-fourth street, Philadelphia. General alterations. Contract awarded to Lyster Cont. Co., 3732 Powelton avenue, Philadelphia.

Residence, Richmond street, North of Buckius street, Philadelphia, $7,000. Architect, private plans. Owner, J. Wesolowski, care of builder. Brick, 2 stories, 16x60 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to John Hodubski, 4748 Mercer street, Philadelphia.

Gas Station, Northwest Corner Third and Allegheny avenue, Philadelphia, $3,000. Architect, private plans. Owners, Reading R. R. Co., Twelfth and Market streets, Philadelphia. Brick, 1 story, 1 7feet 10 inches x 25 feet. Contract awarded to State Motor Service Co., 236 South Fourth street, Philadelphia.

Garage (add. and alts.), 856 North Forty-eighth street, Philadelphia, $3,000. Architect, private plans. Owner, Yetta Shestack, 631 South Sixty-third street, Philadelphia. Brick, 1 story add., 14 feet 9 inches x irregular, general alterations. Contract awarded to Girard Realty Cont. Co., 631 South Sixty-third street.

Manufacturing and Storage Building (add.), 2016 Walnut street, Philadelphia, $25,000. Architect, private plans. Owners, George Barrie & Sons, 2016 Walnut street, Philadelphia. Brick, 4 stories add., 21 feet x irregular. Contract awarded to Clayton Lofland, 231 North Water street, Philadelphia.

Residence, East side Boileau street, South of Jackson street, $6,000. Architect, private plans. Owner, Robert McCoy, Bustleton, Pa. Frame, 2 stories, 27x25 feet, electric light, hardwood and pine floors. Contract awarded to Walter Freas, Bustleton, Pa.

Hospital (add.), Thirty-sixth and Spruce streets, Philadelphia, $4,000. Architect, private plans. Owners, University of Pennsyl-

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vania Hospital, 3400 Spruce street, Philadelphia. Brick addition. Contract awarded to Leroy K. Smith, 4007 Chester avenue, Philadelphia.

Retaining Wall, Northeast Corner School lane and Henry street, $3,000. Architect, private plans. Owner, D. H. Carstairs, on premises. Contract awarded to Joseph Gargen, 214 East Haines street, Philadelphia.

Moving Picture Theatre (alts.), Fifty-second and Greenway avenue, $10,000. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Stanley Company of America, 1916 Race street, Philadelphia. General alterations. Contract awarded to S. H. Levin, Elrae Building, Philadelphia.

Office Building (alts.), Southeast Corner Walnut and Juniper streets, $4,000. Owners, Albert Greenfield & Co., Bankers' Trust Building, Philadelphia. General alterations. Contract awarded to S. H. Levin, Elrae Building, Philadelphia.

Residence (add.), 6002 Greene street, Philadelphia, $3,500. Architect, private plans. Owner, Dr. W. B. Swartley, on premises. Brick, 2 stories add., 14x34 feet. Contract awarded to E. A. Heffner, 6361 Cherokee street, Philadelphia.

Manufacturing Building (add.), 623 Callowhill street, Philadelphia, $3,000. Architect, private plans. Owners, Hance Brothers & White Co., 623 Callowhill street, Philadelphia. Brick, 1 story add., 35x32 feet. Contract awarded to H. P. Schneider, 3713 Old York road, Philadelphia.

Residence (add.), 2095 Bridge street, Philadelphia, $2,200. Architect, private plans. Owner, Addin Jabyello, James and Kennedy streets, Philadelphia. Brick, 1 story add., 10 feet 4 inches x 14 feet 4 inches. Contract awarded to Charles Doerr, 5350 Tacony street, Philadelphia.

Miscellaneous Grading and Paving, Philadelphia. Owners, Department of Public Works, Bureau of Highways, 232 City Hall. Contracts awarded. Schedule A—Grading: Borbeck street, Frontenac to Lorretta streets, Gufknecht & Cullison, 6305 Torresdale avenue, Philadelphia, $1,939.50; City avenue, W. C. L., Sixty-third to 100 feet west, James F. O'Rourke, 5215 Ditman street, Philadelphia, $627.20; Hegerman street, Foust to Vankirk streets, Gudknecht & Cullison, 6305 Torresdale avenue, Philadelphia, $606.60; James street, Princeton to Friendship street, Gudknecht & Cullison, 6305 Torresdale avenue, Philadelphia, $403; Oxford, Shelmire, Cottman, St. Vincent, Dougan road and Whitaker, Roy B. Wenner, 2315 Walnut street, Philadelphia, $1,048.50. Schedule B—Asphalt Paving: Emlen, Mt. Pleasant to Lincoln, Mack Paving Co., Nicetown lane and C street, Philadelphia, $15,300.74; Fairhill street, Spencer to Godfrey avenue, Mack Paving Co., Nicetown lane and C street, Philadelphia, $5,985.42; Lawrence avenue, Wingohocking to Annsbury, Mack Paving Co,, Nicetown lane and C street, Philadelphia, $3,276.64; Ormond street, Hunting Park avenue to Bristol, Eastern Paving Co., Pennsylvania Building, Philadelphia, $4,963.69; Fourth, Tabor to Clarkson, Mack Paving Co., Nicetown lane and C street, Philadelphia, $2,977.40. Schedule C—Country Road Improvement: Griffith, Castor to Frontenac, M. Y. Neely, Wakeling and Oxford roads, Philadelphia, $10,279.50; Kingsley street, Daniel to Walnut lane, J. L. Leewright, Walnut lane and Mitchell street, Philadelphia, $2,640; Rowland, Welsh to Solly street, Curtis Brothers, State road, Philadelphia, $4,102. Repairs to bridges, State Road Bridge over Pennypacker, Kaufma nConst. Co., Pennsylvania Building, Philadelphia, $3,290. Furnish asphatic cement, Atlantic Refining Co., $3,440. Limestone dust, Levino Co., Philadelphia, $1,537.50.

Pennsylvania Construction News

Residences (250), Upland, Pa. Architect, private plans. Owner, W. Percival Johnson, 4039 Lancaster Ave., Phila. Brick, stone, hollow tile, 2 stories, hot water heat, electric light, tile work, slate and slag roof, hardwood floors. Plans in progress.

Bungalows (California type) (8), Kirklyn, Delaware County, Pa. Architect, William L. Charr, Victory Building, Philadelphia. Owner, care of architect. Concrete, blocks and stucco, 1 story and basement, 30x46 feet, Spanish tile and slag roof, hot water heat, electric light, maple floors, tile work, rolled steel sash, ornamental iron work, terra cotta, flagstone. Plans in progress.

Residences (650), Colwyn, Delaware County, Pa. Architect, private plans. Owner, Louis Davidson, 5500 Baltimore avenue, Philadelphia. Brick, 2 stories, 15x43 feet, slag roof, pine floors, hot water heat, electric light. Plans in progress.

Hospital, Abington, Pa., $1,500,000. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owners, Abington Hospital, Abington, Pa. Stone, brick, steel. Sketches being prepared.

Church, Irwin, Pa., $200,000. Architects, Home Mission Board of Architects, Methodist Episcopal Church, W. E. Conover, 1701 Arch street. Owners, Methodist Episcopal Church, Rev. J. Piper, Irwin, Pa. Stone. Plans in progress.

Court House (add.), Media, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owners, Delaware County Commissioners, Court House, Media, Pa. Marble, 2 stories, general alterations. Plans in progress.

Semi-Detached Houses, Parkside, Chester, Pa. Architect, Frank Watson, Crozer Building, Chester, Pa. Owner, name withheld. Brick, stucco, 3 stories, 20x45 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Garage and Service Station, Chester, Pa. Architect, Frank Watson, Crozer Building, Chester, Pa. Owner, name withheld. Brick, concrete block, 1 story and basement, 70x90 feet, slag roof, steam heat, electric light, steel sash. Plans in progress.

Store, Apartment and Gas Station, Llewellyn, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, Robert Reedy, on premises. Concrete block, stucco, 2 stories, 30x40 feet, composition roof, tile work, hot water heat, electric light. Plans in progress.

Club House (alts. and add.), Reading, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, Reading Sick Bene-

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ficial Association, care of architect. Brick, 1 story, 11x56 feet, composition roof, heating extension, electric light, general alterations. Plans in progress.

Church and Sunday School (alts. and add.), Oley, Pa. Architect, H. H. Maurer, 234 North Fifth street, Reading, Pa. Owners, Friedens Reformed Church, Rev. Sweitzer, Oley, Pa. Brick, 1 story and basement, 50x80 feet, oak floors, steam heat, electric light, leaded glass. Plans in progress.

Church and School, Allentown, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Catherine of Sienna, Rev. C. C. Thalen, 206 North Eighteenth street, Allentown, Pa. Brick, 2 stories, 60x100 feet. Ready for bids in a few days.

Store and Apartment, Narberth, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, H. J. Rittenhouse, Fifty-third and Vine streets, Philadelphia. Brick, stucco, 2 stories and basement, slag and tile roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, ornamental iron work. Revised plans completed. Architects ready for bids.

Store Building, Sixth and Edgemont streets, Chester, Pa. Architect, David Levy, 949 Hamilton street, Allentown, Pa. Owner, A. W. Wolson, 604 Edgemont avenue, Chester, Pa. Brick, steel, 2 stories and basement ,100x40 feet, slag roof, hardwood floors, elevators, steam heat, electric light. Plans in progress. Will take bids in two weeks.

School, Red Lion, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Red Lion School Board, Red Lion, Pa. Architect selected.

Residence (alts. and add.), Doylestown, Pa., $10,000. Architect, A. Oscar Martin, Doylestown, Pa. Owner, J. B. Stryker, Lansdale, Pa. Stone, 2 stories, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will take bids in two weeks.

Residence and Garages (2), Drexel Hill, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, John J. Conner, Fifty-second and Regent streets, Philadelphia. Stone, 2½ stories, 28x43 feet, 1 story, 20x18 feet, 2½ stories, 25x28 feet, 1 story, 10x20 feet, shingle roof, hardwood and cement floors, hot water heat, electric light, tile and marble work, kitchen equipment, electric refrigerators, automatic gas heaters. Owner ready for bids.

Residence and Garage, Lansdowne Court, Lansdowne, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, J. C. Curley, Plaza Hall, Forty-third and Chestnut streets, Philadelphia. Stone, frame, 2 stories, 22x56 feet, shingle roof, hardwood floors, vapor heat, oil burning, electric light, hardwood floors, tile and marble work, incinerator, refrigeration. Architect taking bids due as soon as possible.

Gardener's Cottage (add.), Bethlehem pike, Chestnut Hill, Pa. Architect, J. L. Connaroe, 225 South Sydenham street, Philadelphia. Owner, J. B. Van Seiver, Bethlehem pike, Chestnut Hill, Pa. Stone, 2 stories, 22x15 feet, slate roof, hot water heat, electric light, tile work. Architect taking bids due August 20th.

Auditorium, Stroudsburg, Pa., $125,000. Architect, Edward H. Davis, Board of Trade Building, Scranton, Pa. Owners, State Normal School, Stroudsburg, Pa. Architect selected. Too early for details.

High School ,Auditorium and Gymnasium, Newport, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, School District, Borough of Newport, Perry County, Newport, Pa. Brick, steel, 2 stories, 15 rooms, composition roof, maple floors, hollow tile, safety treads, roof ventilators, skylights, rolled steel sash, tile work, metal lath (heating, plumbing and electric separate). Plans in progress.

Concrete Work, Fort Street High School, Bridgeport, Pa. Owners, Bridgeport School District, James Griffin, Bridgeport, Pa. Owners taking bids due August 23rd. Specifications from President, M. B. Tufillaro, 200 DeKalb street, Norristown, Pa.

High School, West York, Pa. Architects, Witman & Royer, 47 East Market street, York, Pa. Owners, West York School Board, care of architect. Brick, steel, fireproof, 2 stories and basement, 174x60 feet, composition roof, maple and composition floors, hollow tile, safety treads, roof ventilators, ornamental iron, rolled steel sash, metal lath (heating, plumbing and electric separate). Architects taking bids.

Bungalow, Norristown, Pa. Architect, private plans. Owner, Edmund McVaugh, 1009 West Marshall street, Norristown, Pa. Brick, concrete foundations, asbestos roof, hot water or vapor heat, electric light, hardwood floors, fire place, ash drop, plate glass, casement windows. Owner building and is taking sub-bids.

Apartment House, Linwood and Argyle road, Ardmore, Pa. Architect, William Macy Stanton, 1915 Land Title Building, Philadelphia. Owner, E. A. Fitts, 30 Linwood avenue, Ardmore, Pa. Brick, stone, steel, 3 stories and basement, 200x200 feet, built-up and slate roof, composition, tile and hardwood floors, hollow tile, dampproofing, ornamental iron work, fire, kalamein an dhollow metal doors, rolled steel sash, tile and marble work, vacuum heat, electric light, oil burning and refrigeration. Architect taking sub-bids.

Bank, Pottsville, Pa. Architects, Mowbray & Uffinger, Inc., 221 West Fifty-seventh street, New York City. Owners, Miners' National Bank, Pottsville, Pa. Reinforced concrete, brick, cut stone, granite, steel, 1 story and 3 mezzanines and basement, 143x58 feet, plastic slate and composition roof, cement floors, hollow tile, roof ventilators, integral waterproofing, ornamental iron work, iron stairs, floor hardener, bond, hollow metal doors, hollow metal sash, marble work, metal lath, steam heat, electric light, area gratings, plumbing, brass pipe, bronze windows, Johns Mansville roof. Architects taking bids due August 30th.

Department Store and Apartments, 20-22 Tenth street, Marcus Hook, Pa. Architect, W. L. Charr, Victory Building, D. Finestone, Pennsylvania Building, Philadelphia. Owner, J. Mark, Tenth street, Marcus Hook, Pa. Brick, stone, cut stone, steel, 2 stories and basement, 40x48 feet (plumbing, heating reserved), slag roof, cement and maple floors, electric light, metal lath, tile and marble work, bond, ornamental iron work. Owner taking bids.

Residence (alts. and add.), 413 Oak Lane avenue, Wayne, Pa. Architect, John B. Thomson, 34 South Seventeenth street, Philadelphia. Owner, John Foley, on premises. Brick, 2 stories and basement, 12x16 feet, 2 wings (plumbing, heating, electric reserved), slag roof, oak and pine floors, carpentry and mill

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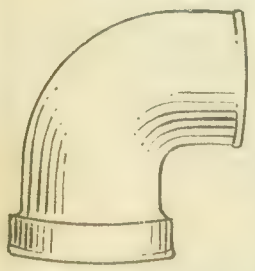
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work, plastering, mill work, painting, sheet metal work, glazing. Architect taking bids due August 20th.

State Street Memorial Bridge, Harrisburg, Pa. Architects, A. W. Brunner, Associates, 101 Park avenue, New York. Owners, State of Pennsylvania, Department of Property and Supplies, Harrisburg, Pa. Granite. Lowest bidders, first unit: C. W. Strayer, Twenty-fifth and Market streets, Harrisburg, Pa., $575,000; Whiting-Turner Const. Co., Baltimore, Md., $691,712.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Low bidders on road work received August 10th:

Bradford County, R-20, Canton Borough, 1,684 feet. One course reinforced concrete. Montour Const. Co., Williamsport, Pa., $27,-533.91.

Pike County, R-7, Sec. 1 and 2, Shohola, Dingman, Lackawazen, Blooming Grove Townships, 56,925 feet. W. B. macadam surface course. David Schoentag, Inc., Saugerties, N. Y., $167,933.25.

Franklin County, R-224, bridge. W. W. Wolf & Co., Jersey Shore, Pa., $9,669.76.

Warren and Forest Counties, R-93, S-2 and 1, Limestone and Hickory Townships, 59,752 feet. One course reinforced concrete. Kirkpatrick & Wallis, Johnsonburg, Pa., $266,-787.32.

Washington County, R-113, S-6, West Pike Run Township, Centerville and Beallville Boroughs, 9,515 feet. One course reinforced concrete. Jones Const. Co., Woodlawn, Pa., $92,346.12.

Armstrong County, R-69, A-3031, 3764, Parks and Gilpin Townships, 23,923 feet. One course reinforced concrete. W. W. Harper Const. Co., Somerset, Pa., $183,327.26.

York County, R-441, A-3540, Glen Rock Borough, Shrewsbury and Corodus Townships, 26,534 feet. One course reinforced concrete. Continental Contr. Co., Baltimore, Md., $189,-294.17.

Westmoreland County, R-188, A-3913, 3914, Allegheny Township, 17,626 feet. One course reinforced concrete. State Const. Co., New Kensington, Pa., $182,459.95.

Westmoreland County, R-119, R-4a-6, Unity Township, 4,208 feet. One course reinforced concrete. Thomas Cronin Co., Pittsburgh, Pa., $48,734.90.

Erie County, R-87, 258, Mill Creek, Harbor Creek Townships, Wesleyville Borough, 11,-017 feet. One course reinforced concrete. Winter & Maple, Erie, Pa., $93,269.12.

Potter County, R-103, A-3968, Ulysses Township, 10,560 feet. W. B. macadam surface course. D. L. Dennis, Galeton, Pa., $30,-648.48.

Potter County, R-236, A-3359, 3979, Nehon and Clara Townships, 13,750 feet. W. B. macadam surface course. D. L. Dennis, Galeton, Pa., $39,842.72.

Montgomery County, R-197, A-4278, New Hanover Township, 9,082 feet. One course reinforced concrete. R. D. Richardson Const. Co., Scranton, Pa., $66,947.75.

Allegheny County, A-3986, Glassport Borough, 10,896 feet. One course reinforced concrete and vitrified brick. F. W. Scott Co., Hays, Pa., $162,118.64.

Warren County, R-89, S-1, Pittsfield Township, 5,448 feet. One course reinforced concrete. H. E. Bunce, Conneaut Lake Park, Pa., $36,168.52.

Allegheny County, R-395, A-4099, Penn and Wilkins Townships, 19,173 feet. One course reinforced concrete. Wilmerding Supp. Co., Wilmerding, Pa., $193,231.

Northampton County, R-163, S-3, Lower Mt. Bethel Township, 4,346 feet. One course reinforced concrete. R. D. Richardson Const. Co., Scranton, Pa., $46,443.83.

Pennsylvania Contracts Awarded

Boiler House, Wayne, Pa. Architect, private plans. Owner, United Gas Improvement Co., Broad and Arch Sts., Phila. Brick, reinforced concrete, steel, 1 story, 30x40 feet, slag roof, cement floors, rolled steel sash, ornamental iron work. Contract awarded Frank G. Stewart, 1520 Locust St., Phila.

School, Forrest Ave., Ambler, Pa. Architect, Watson K. Phillips, 213 S. 5th St., Phila. Owner, Board of Education, F. C. Weber, Sec'y, Ambler, Pa. Contract awarded E. C. Shallcross, Gratersford, Pa., $60,500. Elec., Harbin Riley, Ambler, Pa., $1,372.25; plumbing, J. H. Kirk, Ambler Pa., $4,138; Heating, J. Borden, 637 N. 19th St., Phila., $8,690.

Sunday School Building, Chestnut St. and Heather Road, Stonehurst, Pa. Architect, Geo. E. Savage, Witherspoon Bldg., Phila. Owner, Miller Memorial Presbyterian Church, Mr. Aigniu, care Jump House Wrecking Co., 43rd St. and Woodland Ave., Phila. Stone, cut stone, cement and pine floors, 1 story, basement and balcony, 73x55 feet, black slate and slag roof, plumbing, steam heat, electric light, metal lath, tile work, bond, ornamental iron work, area gratings, brass work. Contract awarded Frank G. English, 1610 N. Carlisle St., Phila.

Fire House, Springfield, Delaware County, Pa. Architect, John J. Carroll, 1619 Chestnut street, Philadelphia. Owners, Springfield Fire Co., M. S. Pancoast, Springfield, Pa. Brick, concrete, stone, steel, 3 stories, 41x76 feet, slag roof, metal lath, cement floors, painting and glazing, steam heat, electric light, painting and glazing, bond, ornamental iron work, incinerator, hardware, cast concrete dumb waiters, plumbing. Contract awarded Bowden Const. Co., 1607 Summer street, Philadelphia.

Church and Rectory (alts. and add.), Minersville, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, Our Lady of Mt. Carmel, Rev. J. C. Weitt, Minersville, Pa. Brick, steel, concrete, 1 story and basement, 3 stories and basement, 24x46 feet, 20x46 feet, asbestos shingle roof, pine and composition floors, electric light, tile work. Contract awarded Barnes Const. Co., 1828 Arch street, Philadelphia.

Church (alts. and add.), Downingtown, Pa. Architect, John H. Mowere, Phoenixville, Pa. Owners, Downingtown Methodist Episcopal Church, Rev. A. B. Goudie, Downingtown, Pa. Stone, limestone, steel, 2 stories and basement, 98x43 feet (plumbing, heating and electric reserved), slag roof, pine and maple floors, rolled steel sash, ornamental iron work. Contract awarded G. H. Fisher & Son, 423 East Lancaster avenue, Downingtown, Pa.

Parish Buildings (alts. and add.), Essington, Delaware County, Pa. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, St. Margaret Mary's Parish, Rev. D. A. Coghlan, on premises. Brick work, carpentry and mill work, demolition, electric work, hardware, steam heat, metal lath, miscellaneous iron work, painting and glazing, plumbing, stone work, weather stripping. Con-

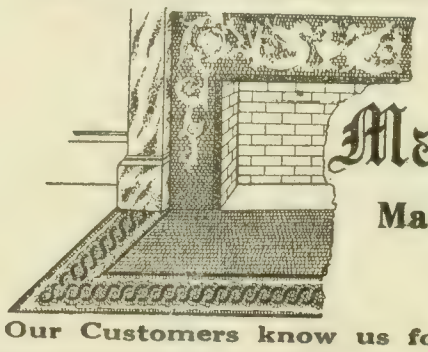
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tract awarded F. V. Schubert, 4438 North Reese street, Philadelphia.

Residence, Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, J. L. Bausher, 933 North Third street, Reading, Pa. Stone, stucco, 2½ stories, 39x63 feet, slate roof, hardwood floors, hot water heat, electric light. Contract awarded to Adam Spatz, Wernersville, Pa.

School (add.), Topton, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owners, Topton School Board, Mr. Rohrbach, secretary, Topton, Pa. Brick, steel, 2 stories, 24x72 feet, 36x34 feet, Barrett roof, pine floors, roof ventilators (heating, plumbing, electric separate). Contract awarded to M. A. Stump, Topton, Pa.

Garage, Lansdowne, Pa. Architect, private plans. Owners, Fleishman Yeast Co., Twentieth and Venango streets, Philadelphia. Brick, cut stone, steel, 1 story and basement, 50x105 feet, slag roof, cement floors, electric light, rolled steel sash, galvanized iron skylights, ornamental iron work. Contract awarded Paul Brosz, 2511 West Huntingdon street, Philadelphia.

School, Dallastown, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owners, St. Joseph's Roman Catholic Church, Dallastown, Pa., care of Father Magee. Brick, steel, 2 stories, 96x86 feet, slag roof, maple floors (heating, plumbing and electrical work separate). Contract awarded to C. F. Deller, Dallastown, Pa.

Grade School, Sharon Hill, Pa. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owner, Sharon Hill School Board, Sharon Hill, Pa. Brick, cut stone, steel, reinforced concrete, 2 stories and basement, 152x82 feet (plumbing, heating and electric separate), Barrett specification roof, cement and maple floors, metal lath, waterproofing, bluestone, limestone, alberne cast stone. Contract awarded G. H. Evans Co., 1416 Vine street, Philadelphia, $47,695. Plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, $3,475. Heating, American Heating Co., City Center Building, $6,322. Electric, Scutt Elec. Co., Camden, N. J., $1,050.

Junior High School, Leola, Pa., $90,000. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Upper Leacock Township School Board, care of architect. Brick, steel, 1 story and basement, 150x200 feet, slate and concrete roof, wood floors, concrete block, safety treads, roof ventilators, iron stairs, bond (heating, plumbing and electric separate), metal lath, tile and marble, steel sash, skylights. Contract awarded to B. Frank Bachman, Woolworth Building, Lancaster, Pa. Heating, Messelman & Swartz, Leola, Pa. Plumbing, Bard-Will Co., 118 South Queen street, Lancaster, Pa. Electric, Mentzer Electric Co., Ephrata, Pa.

School (add.), Bart Township, Lancaster County, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Bart Township School Board, care of architect. Brick, 1 story, 4 rooms, composition roof, pine floors (heating, plumbing and electrical work separate). Contract awarded to L. W. Wohlsen, Breneman Building, Lancaster, Pa.

School (add.), Berwyn, Pa. Architect, Franklin D. Edmunds, Real Estate Trust Building, Philadelphia. Owners, School Board of Berwyn, Dr. T. G. Aikens, Berwyn, Pa. Frame, cut stone, 1 story, 85x37 feet, shingle roof, pine and cement floors. Contract awarded William H. Parlaman, Paoli, Pa.

High School, Shippensburg, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, School Board, C. E. Warren, secretary, Shippensburg, Pa. Brick, 2 stories, slate roof, hardwood and concrete floors (heating, plumbing and electric separate). Contract awarded to A. R. Warner, Waynesboro, Pa.

Residence (alts. and add.), Lebanon, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, Eugene Siegrist, Lebanon, Pa. Brick, frame, 2½ stories, 20x36 feet, shingle roof, tile and linoleum floors, hardwood floors, hot water heat, electric light, tile work. Contract awarded to John Lawrence, Lebanon, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Montgomery County, A-3961, Cheltenham, Upper Dublin, Whitemarsh Townships. One course reinforced concrete. $148,842.80. Contract awarded to Dalton Brothers, Paoli, Pa.

Northumberland County, R-336, A-3724, Little Mahanoy and Jackson Townships. One course reinforced concrete. $168,822.26. Contract awarded to William M. Moser, Mt. Carmel, Pa.

Venuango County, R-75, A-3677, Richland and Rockland Townships. One course reinforced concrete. Contract awarded to Russell Brothers, Youngstown, Ohio.

Northampton County, A-3908, East Allen and Moore Townships, Chapman Borough. One course reinforced concrete. $156,634.36. Contract awarded to George H. Hardner, Allentown, Pa.

New Jersey Construction News

Church (alts. and add.), Audubon, N. J. Architects, Bureau of Architects, M. E. Church, 17th and Arch streets, Phila. Owner, Audubon M. E. Church, on premises. Brick, stone, cut stone, concrete, steel 1 story and basement, 66x77 feet, (plumbing, heating, electric reserved), built-up roof, asbestos shingle roof, cement and pine floors, metal lath, hollow metal sash, kalamein doors, bond, shoring, water and damp proofing, demolition, steel partitions, cast stone cinder block, bluestone flagstone, iron gratings. Architect taking revised bids due as soon as possible.

Hospital, Princeton, N. J., $600,000. Architect, Sherley W. Morgan, 129 E. 65th St., New York. Princeton Hospital, Dr. Chas. Broune, Pres., Princeton, N. J. Brick, steel, 2½ stories, slag roof, cement and composition floors, electric light, steam heat, tile and marble work. Plans in progress. Architect will take bids Aug. 23rd.

Dining Hall, Kitchen, Store Room, Cannery and Bakery, Totowa, N. J. Architects, Dept. Institutions and Agencies Division of Architecture, State of New Jersey, Trenton, N. J. Owner, New Jersey Institution for Feeble Minded, Totowa, N. J. Brick, limestone, granite, reinforced concrete, steel, concrete block, 1 story and basement, 170x103 feet, (plumbing, heating and electric work separate), slate and tile roof, tile and cement floors, elevators, roof ventilators, metal grilles, metal ceilings, membrane and integral waterproofing, dampprofiing, bronze work, ornamental iron work, iron stairs, floor hardener, bond, kalamein and hollow metal doors, rolled steel skylights, tile, marble, terrazzo and slate work, metal lath. Certified check 5% of bids. Architect taking bids. Plans and specifications can be seen at office of Building News Publishing Co., 826 Perry Bldg,. Phila.

Store and Apartment (alts. and add.), 21 North Delaware avenue, Atlantic City, N. J. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, Mrs. Carrie Greene, on premises. Brick, 36x36 feet, 15x36 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Doctors' Residences (2), State Village for Epileptics, Skillman, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, State House, Trenton, N. J. Brick, concrete, 2 stories, black slate roof, oak floors, metal lath, tile and marble, bond (plumbing, heating, electrical separate). Owners taking bids (revised) due August 30th.

Apartment House, Baltic avenue, between New York and Kentucky, Atlantic City, N. J. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owenrs, Liberty Apartment Hotel Corporation, Atlantic City, N. J. Brick, steel, concrete, 5 stories, 75x200 feet, tile and slag roof, steam heat, electric light, metal lath, tile and marble work, elevators (2), oil burners. Plans in progress. Architect wil ltake bid in three weeks.

Completion of Gym and Auditorium, High School, North Wildwood, N. J. Architect, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owners, Board of Education, D. C. Young, North Wildwood, N. J. All bids rejected. Revised bids will be taken due August 24th, 8 P. M.

Jewish Community Center, Jersey City, N. J. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owners, Jersey City Young Men's and Young Women's Hebrew Association, Isaac Dershonowitz, chairman, Jersey City, N. J. Limestone, brick, steel, concrete and marble, 4 stories and basement. Will contain gym, lodge and meeting rooms, swimming pool, etc. Architect taking bids due August 20th.

Bank (add.), Riverside, N. J. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owners, First National Bank, Riverside, N. J. Brick and precast stone, 2 stories, 60x30 feet (plumbing, heating and electric light reserved), vapor heat, marble work. Architect taking bids due August 23rd.

School, Berlin, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Berlin School Board, W. N. Haynes, secretary, Berlin, N. J. Brick, 2 stories, 4 rooms, built-up roof, concrete floors, safety treads, roof ventilators, waterproofing, metal lath (heating, plumbing and electric separate). Owners taking bids due August 26th.

School, West Berlin, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Berlin School Board, W. N. Haynes, secretary, Berlin, N. J. Brick, 2 stories, 4 rooms, built-up roof, concrete floors, safety treads, roof ventilators, waterproofing, metal lath (heating, plumbing and electric separate). Owners taking bids due August 26th.

New Jersey Contracts Awarded

Doctors' Residences (6), Hospital for Insane, Trenton, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Brick, 2 stories and basement, 62x30 feet, slate roof, oak and pine floors, metal lath, tile and marble work, bond. Contract awarded to C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., $68,500. Plumbing, William J. Lee, 1126 South Broad street, Trenton, $5,750. Heating, H. J. Martindell, Trenton, N. J., $7,500. Electric, Peter G. Peifer, Yardley, Pa., $2,088.

Recitation Building, New Brunswick, N. J., $172,666. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N J. Limestone, granite, brick, steel, reinforced concrete, 2½ stories and basement, 158x75 feet, slag and slate roof, rubber tile, mastic, maple, reinforced concrete floors, hollow tile, roof ventilators, integral and membrane waterproofing, ornamental iron, iron stairs, floor hardener, bond, kalamein doors, steel sash, skylights, marble, slate, metal lath, area gratings, bronze, brass

screens. Contract awarded to Karno-Smith Const. Co., Broad Street Bank Building, Trenton, N. J. Plumbing, Burns, Lane & Rich, New Brunswick, N. J., $5,293. Heating, David Buist, New Brunswick, N. J., $10,750. Electric, Delaplaine Brothers, New Brunswick, N. J., $5,300.

Court House (alts. and add.), Mt. Holly, N. J. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owners, Burlington County Board of Chosen Freeholders, Camden, N. J. Brick, 2 stories and basement, 50x39 feet, concrete work, linoleum floors, carpentry and mill work, plastering, painting and glazing, bond, treadlite floors. Contract awarded J. E. Kolster, Beverly, N. J., $10,795. Electric, Ernest Killigan, Mt. Holly, N. J. Heating, Albert Ellis, Moorestown, N. J. Plumbing, A. Stedfole, Mt. Holly, N. J.

Store (alts. and add.), Ashland, N. J. Architect, T. Stephens, Camden, N. J. Owners, Goldberg Brothers, Ashland, N. J. Brick, steel, 1 story, 44x60 feet, slate roof, maple floors, heating extension, electric light, tile work, roof ventilators, metal ceilings, plate glass, cast stone. Contract awarded Bennett-McLaughlin Co., 3434 Sansom street, Philadelphia.

Meeting House (alts. and add.), Atlantic City, N. J. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owners, Friends' Meeting House, Atlantic City, N. J. Demolition, concrete work, cut stone, brick work, hollow tile, structural steel, iron work, kalamein and fire doors, mastic floors, carpentry and mill work, painting and glazing, waterproofing, hardware, plumbing, steam heat, electric work, marble work, granite, limestone, iron stairs. Contract awarded P. G. Hannum, Georgia avenue and Thorofare, Atlantic City, N. J.

School, Berlin, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Berlin School Board, W. N. Haynes, secretary, Berlin, N. J. Frame, 1 story, 2 rooms, built-up roof, pine floors (heating, plumbing and electric reserved). Contract awarded to Watson & Schleinkofer, Atco, N. J.

Church, Trenton, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Holy Angels Roman Catholic Church, Trenton, N. J. Stone, cast stone, steel, 1½ stories and basement and balcony, tile roof, 122x50 feet, pine floors, steam heat, electric light, metal lath, tile work, ornamntal iron work. Contract awarded J. P. Hallahan, 2315 Walnut street, Philadelphia.

Hotel, Tennessee avenue, Atlantic City, N. J., $200,000. Architect, William Macy Stanton, 1915 Land Title Building, Philadelphia. Owners, Belfont Hotel, Atlantic City, N. J. Brick, steel, concrete, 5 stories, 40x120 feet, slag roof, composition roof, hollow tile, elevators, waterproofing and dampproofing, ornamental iron work, tile and marble work, vapor heat, electric light. Contract awarded Taylor-Meyer Co., Pittsburgh, Pa.

Bank and Office Building, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Bankers' Trust Co., 1210 Atlantic avenue, Atlantic City. Brick, 2 stories, 25x120 feet, slag and concrete roof, hollow tile, maple and composition floors, bond, vault, bronze work, tile, marble, metal lath (heating, plumbing and electric reserved). Contract awarded to Samuel Headley, Guarantee Trust Building, Atlantic City, N. J.

Miscellaneous Construction News

Residence, Middleton, R. I. Architect, Horace Trumbauer, Land Title Bldg., Phila. Owner, Edward C. Knight, Middleton, Rhode Island. Stone, 2½ stories and basement, 172x40 feet, slate roof, oak and pine floors, plumbing, hot water heat, metal lath, tile and marble work, bond, ornamental iron work. Architect taking bids due Aug. 26th.

Church and Sunday School, Syracuse, N. Y. Architects, Home Mission Board of Architects, Methodist Episcopal Church, W. E. Conover, 1701 Arch street, Philadelphia. Owners, Lafayette Methodist Episcopal Church, Rev. George H. Haight, 241 East Lafayette street, Syracuse, N. Y. Stone. Plans in progress.

Church and Sunday School, Washington, D. C. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, J. Albright Memorial Evangelical Church, care of architect. Stone or granite, 1 story, seating capacity 500 for church and 500 for Sunday School. Plans in progress.

Residence and Garage, Westover road, near Kennett Turnpike, Wilmington. Architect, W. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Charles L. Candee, Wilmington, Del. Stone, stucco, half timber, 2½ stories, 30x40 feet, slate roof, hardwood floors, electric light, tile work, rolled steel sash. Architect taking bids due August 23rd.

Residence, Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, S. B. Bird, 2205 Park avenue, Wilmington, Del. Brick, stone, 3 stories, 69x20 feet, 27x20 feet, shingle roof, hardwood floors, hollow tile, tile and marble, electric light. Architects taking bids due as soon as possible.

Residences (2), Woodlawn, Wilmington, Del., $12,000. Architect, private plans. Owners, Joyce & Kerrigan, 1021 West Fourth street, Wilmington, Del. Brick, 2 stories, 21x32 feet, slag roof, pine floors, steam heat, electric light. Owners will build.

Residences (2), Sixteenth street, Wilmington, Del., $12,000. Architect, private plans. Owners, Joyce & Kerrigan, 1021 West Fourth street, Wilmington, Del. Brick, 2 stories, 22x32 feet, slag roof, pine floors, steam heat, electric light. Owners will build.

Residences (18), 600-22 West Twenty-eighth street, Wilmington, Del., $6,000 each. Architect, private plans. Owner, Charles P. Witsil, 2523 Jefferson street, Wilmington, Del. Brick, 2 stories, 29x38 feet, slag roof, pine floors, hot water heat, electric light. Owner will build.

Residences (4), Claymont street, Wilmington, Del., $4,000 each. Architect, private plans. Owner, Luigi Fortunato, 1710 West Ninth street, Wilmington, Del. Brick, stone, 2 stories, 28x37 feet, slag roof, pine floors, hot water heat, electric light. Owner will build.

Road Work, Delaware. Owners, State Highway Department, Dover, Del.

Contract 69, Harrington-Mastens Corner, 2.46 miles, Sec. A. Contract 69, Big Ash-Warren's School, 2.40 miles, Sec. B. Clearing, grubbing, excavation, borrow, broken slag base course for secondary roads, corrugated metal pipe.

Contrace 70, Elkton Road-Pleasant Valley School, 1.487 miles. Excavation, borrow, broken slag base course for secondary roads, corrugated metal pipe, creosoted timber for bridges.

Contract 71, concrete widening, Cheswold-Smyrna, 4.84 miles. Excavation, cement concrete pavement, asphaltic expansion joint, Class "A" concrete gutter.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Low bids on work received August 11th.

Contract CN30, Richardson Park-Lancaster Pike, 1.68 miles. W. W. Truitt, Lincoln City, Del., $57,450.50.

Contract CN31A, Rogers Corner-Eden Park, 0.80 mile. F. W. Lovett, Newark, Del., $24,-430.50.

Contract CS55, Selbyville-Williamsville, 4.2 miles. Highway Eng. & Const. Co., Selbyville, Del., $86,158.

Miscellaneous Contracts Awarded

Restaurant and Office Building, 225-27 West Forty-second street, New York. Architects, The Stuckert Co., Crozer Building, Philadelphia. Owners, Bickford's, Inc., 156 West Seventy-second street, New York. Brick, steel, 2 stories and basement, steam heat, electric light, tile and marble and terrazzo work, brass dipt floors, bronze work, plumbing, architectural terra cotta, metal bars. Contract awarded Kuhn, Smith & Harris, 461 Eighth avenue, New York.

(Continued from Page 520)

floor of the building, with one head and a small portion of the shell projecting into the pump room. A similar tank of smaller capacity was installed for use when the office system is running independently. A small motor-driven compressor, having a capacity of 17 cubic feet a minute, at 100 pounds pressure, has been installed to maintain the necessary air pressure on either tank.

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This is a complete manual of Concrete Hardner specifications with illustrated descriptive matter arranged systematically and including specifications so worded that they can be incorporated in a general paragraph or in detail into building specifications.

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These manuals were described by one architect as "containing the truth, the whole truth and nothing but the truth, and as easy to refer to as the telephone book!"

Both books are supplied free upon request by the Master Builders' Company, Cleveland, Ohio.

All records for volume of construction in the United States were shattered in July. Never before was so much money expended in a single month for labor, materials and other elements entering into building costs, according to statistics compiled by the Associated General Contractors of America.

The volume of construction handled last month was well above that recorded for August, 1925, when the previous "peak" was reached. The index on construction operations, based on the 1913 average, shows a jump from the March level of 120 points to the present position of 229. This is the greatest increase within a four-month period ever recorded.

The construction work under way last month furnished a total 4 per cent. greater than that shown in June.

The total volume of construction performed during the first seven months of 1926 was 4% greater than the amount registered during the corresponding period last year. This fact assumes added significance, it is stated, when consideration is given to the trend of operations earlier in the year. Until the end of April, operations lagged behind the figures set at corresponding stages in 1925. It was in May that the present phenominal spurt started.

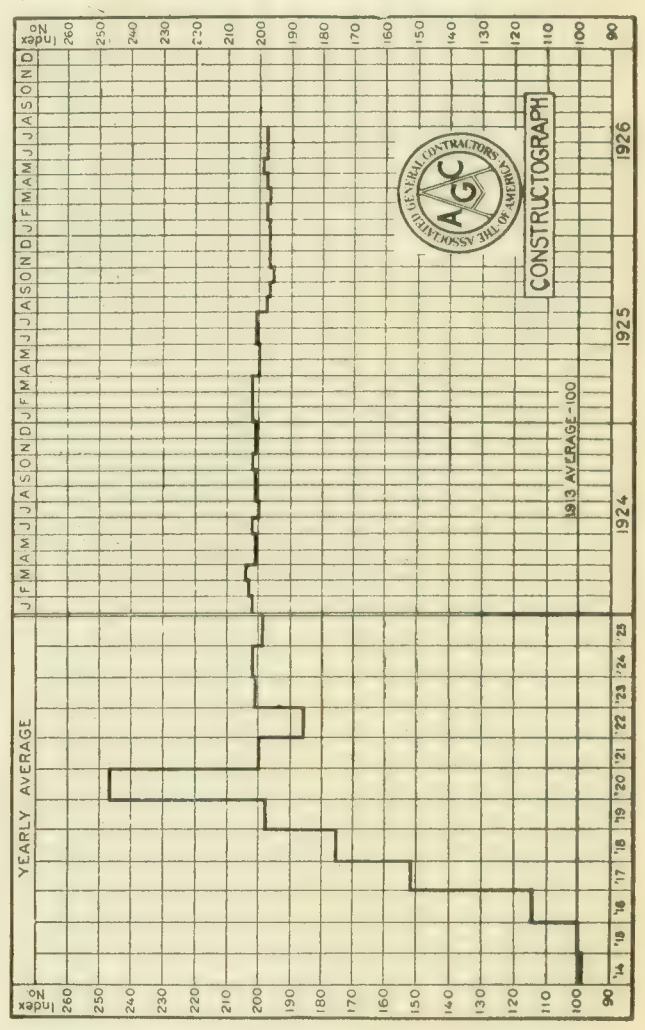
Construction costs have remained virtually on a single level since mid-summer of last year. They continue to hold to an average slightly less than twice as great as that established in 1913, according to statistics compiled by the Associated General Contractors of America.

The average of costs in the principal construction centers of the United States registered in July was identically the same as that marked down in June. It was at the present plane of costs that a three-month period without change was noted from November 1, 1925, to February 1, 1926. Fluctuations immediately preceding and following that period were insignificant.

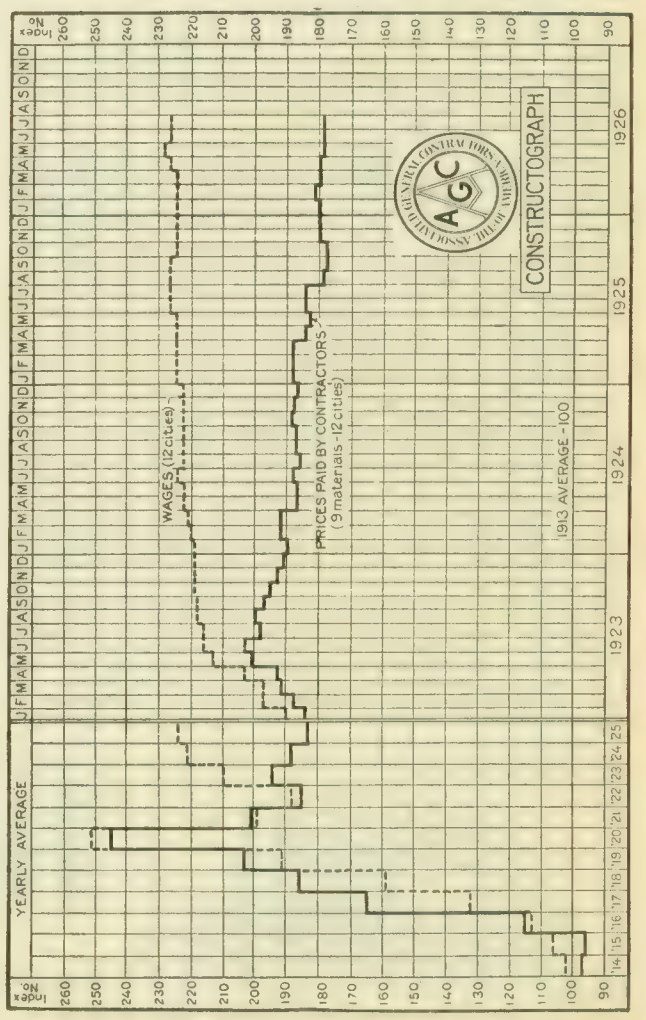
The average of wages in the construction trades and average prices paid by contractors for building materials remained unchanged in July. Although minor fluctuations in prices of materials were noted, the general figures held their positions. Based on the 1913 average as 100, material prices are now established at index number 179, while wages hold to the 226 point level.

The material prices are now only one point above their lowest mark since 1922, set in August and September of last year. The average of wages, on the other hand is only two points below the record high mark of the past three and one-half years, established last March.

Cost of Construction



Wages and Material Prices



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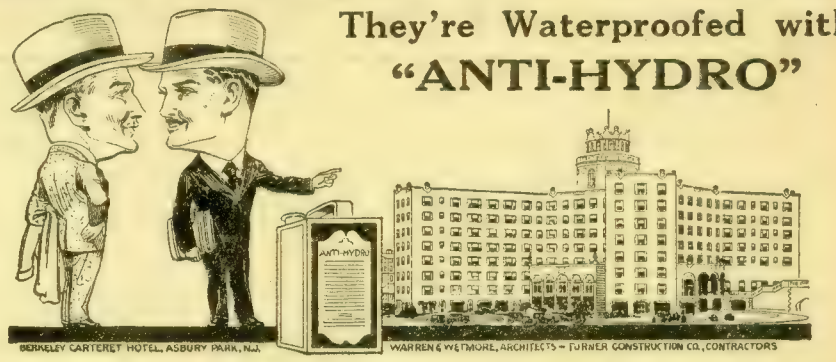
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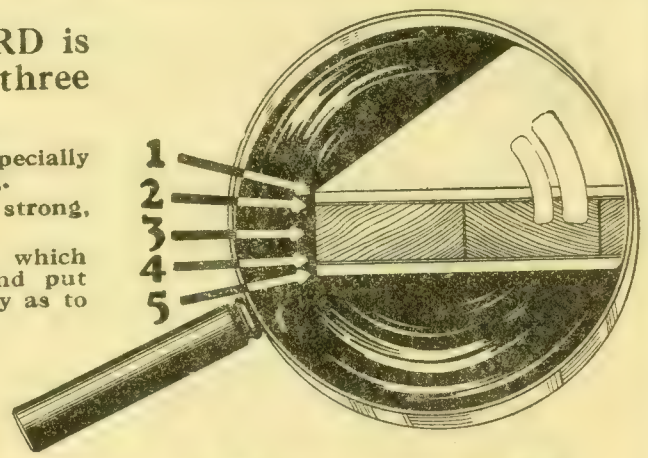
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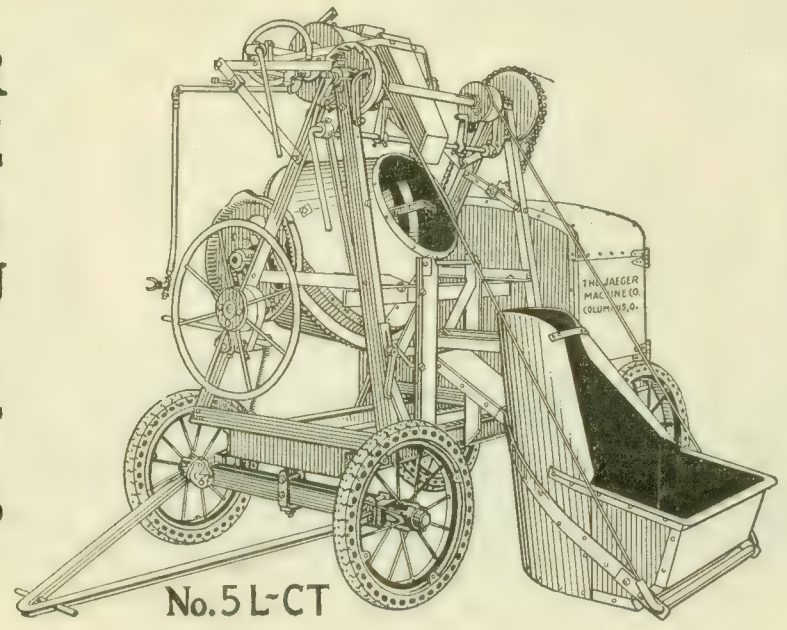
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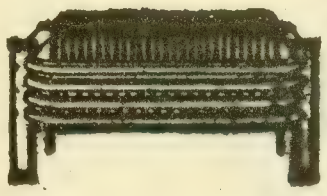
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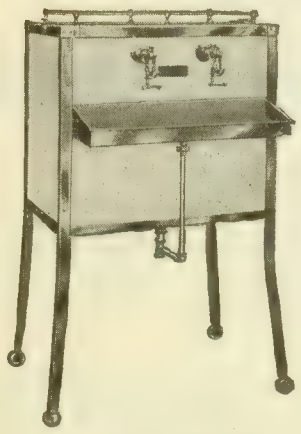
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 34

PHILADELPHIA
August 25, 1926

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As The Editor Sees It

U. S. BUILDING SURVEY PROPOSED

Government Observers Agree on Need for Exact Knowledge of Housing Required in U. S.

BY HORACE H. HERR

Washington, August 4, 1926.

Even the most expert of the government experts always hesitates when it comes to making a positive forecast on the future of any and all industries. Inquiry in the Division of Building and Housing, U.S. Department of Commerce, develops nothing very definite as to the "official" opinion on the future of construction activities. Some of the observers profess to see evidence that the enormous deficit in buildings, incident to curtailed construction during the war, has been made up and that from now on, building activities may be said to be on a "normal" plane of activity. There is no doubt that the volume of building, in many eastern sections, shows some diminution and yet nothing indicative of a serious slump has developed.

There is one opinion, expressed, of course, in many different ways, to which most of the government observers subscribe. That is, the desirability of construction management making a final and exacting survey of methods and practices to the end that overhead costs and general expenses be cut to an irreducible minimum. No rash, indiscriminate cutting of forces is suggested. Rather, elimination of lost motion and wasteful methods is urged in the interest of maximum efficiency. As one official expressed it: "Better go over the ship's rigging and see that everything is seaworthy because calm weather doesn't prevail indefinitely."

The significant thing, perhaps, is the fact that business men are talking a great deal about "over production" and ways and means of marketing "surplus." So much discussion clearly suggests that someone sees the possibility of "over production" and embarrassing "surplus" in the not distant future. An example of this is the recent statement issued by Alvin E. Dodd, manager of the Department of Domestic Distribution of the Chamber of Commerce of the United States, in his address to the Society of Industrial Engineers at Philadelphia.

"The old conception of supplying an existing demand," said Mr. Dodd, "has been succeeded by the new question of creating a demand for a superabundance of supply.

"While our growth in population has been material, it is only about 16 per cent. above that of 1913; but accepting 30 per cent. as the increase in the facilities for manufacture, a capacity exists seriously in excess of what might be called the normal demand based on pre-war rate of production. I do not offer these percentages or the interpretation of them as other than suggestive. The population increase is based on more or less accurate estimates, while the increase in manufacturing facilities is guess pure and simple. But the picture, although somewhat blurred, is before us and its outlines may be recognized.

"This is your distribution problem. When something is produced for which there is no immediate demand the situation is like that of the railroad which has not sufficient traffic to keep it busy.

"As a result we see exaggerated forms of competition. We see extraordinary displays in advertising at extraordinary costs. We see new methods of distribution manifesting an extraordinary growth. And we see that latest ghost, installment selling, which is not appeased by anything less than the payment of next year's income for this year's product.

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"This forced competition has exerted and will continue to exert pressure which results in lowered costs of production and these lowered costs will in time have a profound effect upon the retail price of merchandise."

(Continued on page 547)

With construction operations being carried on at a furious pace, 1926 is considered certain to establish a new record for volume of building activities during a single year. An "eight billion dollar building year" is the possibility, according to indications drawn from statistics compiled by the Associated General Contractors of America.

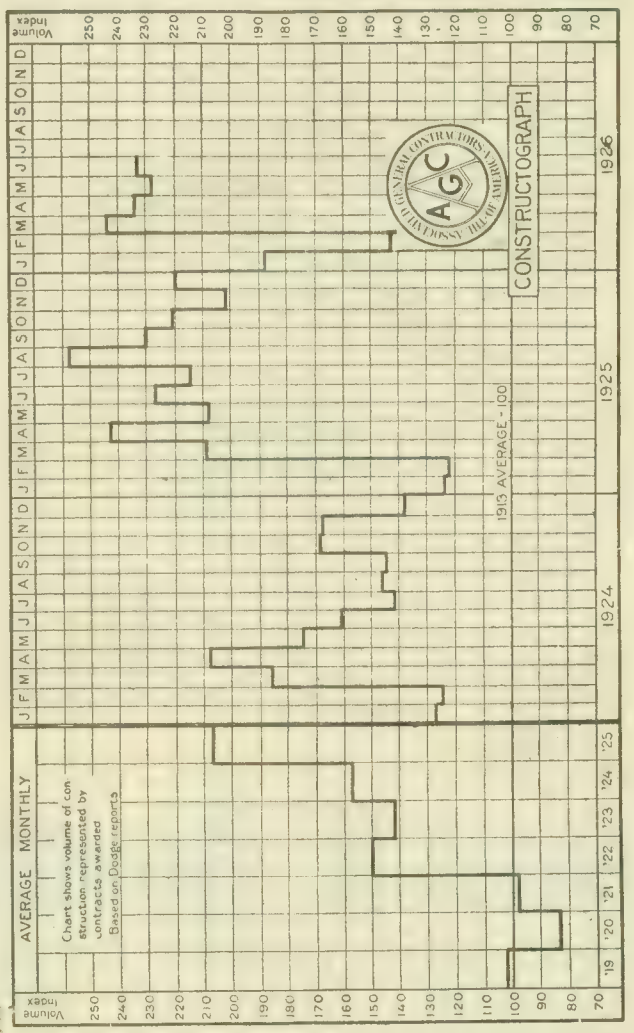
The mere fact that the volume registered for the first seven months of this year is greater than that shown for the corresponding period last year would be sufficient in itself to warrant predictions of a new record, experts reviewing the situation here declare. It is in the recent increase in volume of contracts awarded and building permits issued, however, that the greatest significance is being placed.

The total volume of contracts awarded during the first six months of 1926 was 12 per cent. greater than the total for the corresponding period of 1925. The volume of awards in June was 2 per cent. greater than the total.

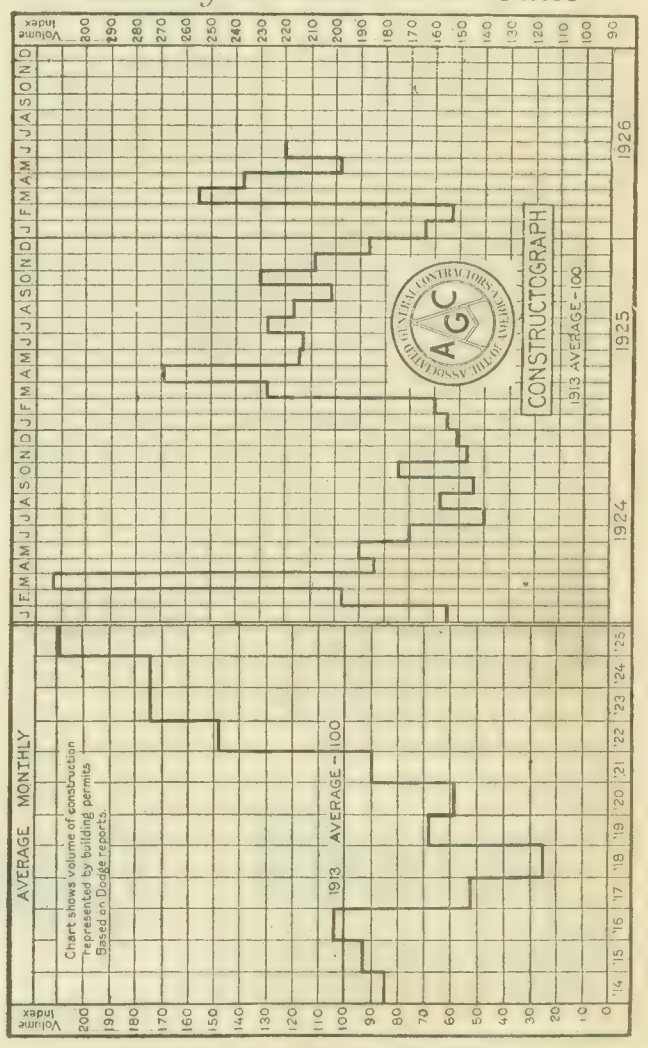
The volume of building permits issued during June was 11 per cent. greater than the May volume.

These figures indicate a vast amount of anticipated construction work, a large portion of which will soon be actually undertaken. With this condition in prospect, observers feel confident the "letdown" that would have to occur to prevent setting of a new record this year is far more a possibility than a probability.

Building Contracts in 27 Eastern States



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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Residence and Garage, Chestnut Hill, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, Samuel Bell, 3rd, 7916 Roanoke street, Philadelphia. Stone and half timber, 2½ stories ,24x100 feet, shingle roof, cement and hardwood floors, hot water heat, electric light, tile and marble work. Plans in progress.

Y. M. C. A. Building, Fifteenth street above Arch street, Philadelphia, $800,000. Architect, Louis E. Jallade, 129 Lexington avenue, New York. Owners, Young Men's Christian Association, Walter M. Wood, general secretary, 1425 Arch street, Philadelphia. Brick, steel, concrete, 15 stories and basement, 84x110 feet, slag roof, reinforced concrete floors, elevators, tile and marble, steam heat, electric light. Plans completed. Owners ready for bids.

Residences and Garages (24), Charles and Conney streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Brinkman & Hoover, 2617 Frankford avenue, Philadelphia. Brick, 2 stories, 16x44 feet, slag and asbestos shingle roof, tin roof, hardwood floors, hot water heat, electric light, tile work. Plans about completed. Owners wil ltake sub-bids Monday.

Two-Family Residence (int. alts.), 2022 Park avenue, Philadelphia. Architect and owner, E. L. Rothschild, Bankers' Trust Building, Philadelphia. Cast stone, hot water heat, electric work, slag roof, hardwood floors, weather stripping, screens, metal lath, tile and marble work, dumb waiter, mill work, wrought iron work, painting. Architect taking sub-bids.

Residence, Fifth and Duncannon streets, Philadelphia, $20,000. Architect, private plans. Owner, W. H. Ashton, 5302 North Fifth street, Philadelphia. Brick, 2 stories, 34x62 feet, slag roof, hardwood floors, hot water heat, electric light. Owner will build.

Residences and Garages (33), South side Alcott street, East of Langdon street, Philadelphia. Architect, private plans. Owners, Schwartz & Booker, 415 South Sixth street, Philadelphia. Brick, 2 stories, 15x28 feet, slag roof, hardwood floors, hot water heat, electric light. Owners taking sub-bids.

Plant (add.), 4901 Stenton avenue, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Leeds & Northrup, on premises. Brick, reinforced concrete, steel, cut stone, 4 stories and basement, 58x140 feet, slag roof, cement and maple floors, metal lath, waterproofing, rolled steel sash, fire doors, iron stairs, ornamental iron work. Architects taking bids due September 1st.

House of Correction (add.), Holmesburg, Pa. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Welfare, City of Philadelphia. Stone, cut stone, steel (plumbing, heating and electric separate), slag roof, cement and pine floors, metal lath, bond, ornamental iron work, administration building, 3 stories and basement, 50x140 feet, main building (add.), 2 stories and basement, 325x50 feet, wing 50x80 feet, boiler house, 2 stories, 48x160 feet, dining room, 1 story and basement, 54x110 feet, kitchen building, 1 story, 45x110 feet, receiving building, 1 story and basement, 50x150 feet. Owners taking bids due September 3rd.

Sales and Service Building, Twenty-fifth and Westmoreland streets, Philadelphia. Engineers, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, American La France Fire Engine Co., on premises. Brick, steel, reinforced concrete, 1 story, 210x100 feet, gypsum slag roof, cement and tile floors, hollow tile, metal weather strips, terra cotta, wire work ,ornamental iron work, fire and kalamein doors, rolled steel sash, tile work. Engineers taking bids due August 26th.

Church and Sunday School Building, Fifty-eighth and Springfield streets, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Berry Memorial Methodist Episcopal Church, R. McConnell, Sixty-first and Greenway. Stone, cut stone, limestone, steel, 1½ stories, balcony and basement, 75x62 feet, Vermont slate and slag roof, cement, pine and maple floors, hollow tile, steam heat, electric light, tile and terrazzo work, bond, ornamental iron work, iron stairs, demolition, architectural terra cotta, membrane waterproofing. Architect taking bids due September 8th.

Apartment House, 1422 North Sixteenth street, Philadelphia. Architect, Samuel Abramson, 2313 Walnut street, Philadelphia. Owner, J. De Spipio, on premises. Brick, 3 stories, 20x90 feet, hardwood floors, steam heat, electric light, tile and marble work, oil burner. Architect taking bids due August 31st.

Apartment House, McCallum and Sedgwick streets, Philadelphia. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, Eugene Raymond, Carpenter lane, West of Lincoln Drive, Philadelphia. Cinder block, stucco, 2 stories and basement, 20x140 feet, slag ristic slate roof, oak and pine floors, celotex, hot water heat, electric light, metal lath, tile work, ornamental iron work. Owner taking bids.

Office Building, Nixon street above Levering street, Manayunk, Philadelphia. Architect, I. E. Spirer, 1925 Independence street, Oak Lane, Philadelphia. Owners, William Spink Co., on premises. Brick, steel, 2 stories and basement, 18x26 feet, slag roof, yellow pine floors, hot water heat, electric light. Owners taking bids due as soon as possible.

Broad Street Subway, Contract No. 126, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Owners taking bids due September 10th, 11 A. M. (Standard Time), for track laying to and including Fern Rock Terminal Yard. Deposit, $40, refunded. Certified check, 5 per cent.

Contract No. 28, Delaware River Bridge. Owners, Delaware River Bridge Joint Commission, Widener Building, Philadelphia. Low bidders: O'Neill Co., 127 East Mermaid lane, Philadelphia, $9,250; Mazzola & Marano, 739 South Seventh street, Philadelphia, $11,500.

Apartment Houses (30), 6601-59 Blakemore street, Philadelphia, $240,000. Architect, private plans. Owner, E. K. Davis, 314 Vernon street, Philadelphia. Stone and block, 2 stories, 18 feet 8 inches x 56 feet 2 inches, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Apartment House (alts. and add.), Northeast Corner Laurence and Pine streets, $6,000. Architect, private plans. Owner, Samuel Knee, 135 South Forty-ninth street, Philadelphia. Brick, 1 story add., 20x25 feet, general alterations. Permit issued.

Residences (24), Sixteenth street, North of Grange avenue, $120,000. Architect, private plans. Owner, Max Chipin, 5701 North Seventeenth street, Philadlephia. Brick, 2 stories, 16x33 feet 6 inches, 12x18 feet 6 inches, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (16), North side Harvey street, West of Wayne avenue, Philadelphia, $64,500. Architect, private plans. Owner, Louis A. Blaul, 6244 Wissahickon avenue, Philadelphia. Brick, 2 stories, 16x32 feet, 11x10 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Permit issued.

Apartment House (add.), 503 South Forty-first street, Philadelphia, $5,000. Architect, private plans. Owner, M. H. Itsyveon, on premises. Brick, 2 stories add., 16x37 feet, slag roof, electric lighting. Permit granted.

Office, West side Schuylkill River, 51-52, Philadelphia, $2,000. Architect, private plans. Owners, Van Sciver Corporation, Twenty-fourth and Parkway, Philadelphia. Brick, 1 story, 13x32 feet, slag roof, electric light, pine floors. Permit issued.

Residences (14), North side Grange, East of Howard street, $65,000. Architect, private plans. Owners, Preis Brothers. Brick, 2 sto-

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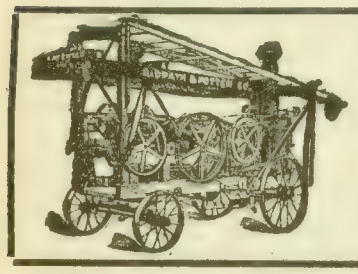
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ries, 15x47 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (7), 6600-12 Woodcrest avenue, Philadelphia, $57,500. Architect, private plans. Owners, J. Franklin Moss & Co., 6225 Lancaster avenue, Philadelphia. Brick, 2 stories, 18x35 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Garage, rear of 8218 Elberon street, Philadelphia, $2,500. Architect, private plans. Owner, Mrs. M. Crossan, on premises. Frame, 1 story, 20x42 feet. Permit granted.

Residences (33), South side Alcott street, East of Langdon street, $134,500. Architect, private plans. Owners, Schwartz & Booker, 415 South Sixth street, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet, slag roof, pine floors, electric light. Permit issued.

Residences (5), East side Germantown avenue, South of Graver's lane, $55,000. Architect, private plans. Owner, William Sher, 5030 North Tenth street, Philadelphia. Brick, 2 stories, 16x49 feet, 13x43 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (2), North side Stanwood street, West of Frontenac street, $5,000 each. Architect, private plans. Owner, Peter Heidt, Jr., 7403 Claridge street, Philadelphia. Brick, 2 stories, 16x34 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Apartment House (add.), 2213 Green sereet, Philadelphia, $3,000. Architect, private plans. Owner, Marcus Mazer, 2213 Green street, Philadelphia. Brick, 4 stories, 16 feet 6 inches x 48 feet, slag roof, pine floors, electric light. Permit issued.

Garage, Juniper, Cherry and Watts Streets, Philadelphia. Architect, Hoffman Henon, Finance Building, Philadelphia. Owner, name withheld. Reinforced concrete and brick, 3 stories and basement. Plans nearly completed. Ready for bids.

Factory Building, Lippincott Street, west of Second street, Philadelphia. Engineer, H. M. Wilson, People's Bank Building, Philadelphia. Owner, Jos. R. Foster & Son, 3100 North Second street, Philadelphia. Brick, steel, 2 stories and basement, 83x60 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, fire and kalamein doors, ornamental iron work. Engineer ready for sub-bids in 10 days.

Residences (41) Cottman and Leon Streets, Philadelphia, $298,500 Architect, private plans. Owners, Nucon and Kenin, 5850 Market street, Philadelphia. Brick, 2 stories, (3) 20x42 feet, (38) 16x30 feet, 11x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (2), 8023-25 Walker St., Philadelphia, $10,000 total. Architect, private plans. Owners, Holmesburg Concrete Co., Holmesburg, Philadelphia. Brick, 2 stories, 16¾x42 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

Film Exchange Building, Northeast corner Twelfth and Vine Streets, Philadelphia. Architect, Dreher and Churchman, Otis Building, Philadelphia. Owner, Claude S. Jarvis, 1211 Vine Street, Philadelphia. Brick, limestone, 2 stories, 57x90 feet, slag roof, electric light. Ready for bids in a few days.

Miscellaneous Paving, Broad St., Montgomery to Stiles, Philadelphia. Owner, Department of City Transit, 1211 Chestnut Street, Philadelphia. Owner taking bids due Sept. 1st. Certified check 5 per cent. of bid.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Bank Building, Broad and Nedro avenue, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Fern Rock Trust Co., S. C. Davis, Broad and Nedro avenue, Philadelphia. Stone, concrete, brick, cut stone, steel, 2 stories and basement, 23x48 feet, slag roof, cement and pine floors, plastering, plumbing, dampproofing, electric light, metal lath, tile, marble and terrazzo work, hollow metal sash, rolled stee lskylights, ornamental iron work, demolition, bronze work, linoleum floors. Contract awarded Knox Landers, 1132 Vine street, Philadelphia.

Apartment House, Sixty-eighth street, Chestnut to Sansom street, Philadelphia (Upper Darby, Delaware County, Pa.), $2,000,000. Architect, Guy B. Johnson, 237 North Sixteenth street, Philadelphia. Owners, Arcodian Court, Inc., care of builders. Brick, steel and concrete, 10 stories and basement, 100x262 feet, blower system, vapor vacuum heat, electric light, metal lath ,tile and marble work,

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slag roof, oak floors, hollow tile, elevators, fire, kalamein and hollow metal doors, iron stairs, ornamental iron work, dampproofing, architectural terra cotta. Contract awarded Van Asdlen Const. Co., Stock Exchange Building, Philadelphia, who are ready for sub-bids.

Residence, Garage and Greenhouse, City Line and Ridge ave., Philadelphia. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, W. A. Ballard, Land Title Building, Philadelphia. Stone, 2½ stories and basement, 107x80 feet, shingle roof, oak and pine and cement floors, plumbing, hot water heat, electric light, metal lath, tile and marble work, rubber floors, flagstone. Contract awarded J. S. Cornell & Sons Co., 1528 Cherry street, Philadelphia.

Store and Apartment (alts. and add.), 2124 Walnut street, Philadelphia. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owner, Charles K. Fein, 916 Pine street, Philadelphia. Demolition, excavation, brick work, cut stone, architectural terra cotta, reinforced concrete, metal lath, plastering, iron work, marble and tile, carpentry, mil lwork, oak floors, kalamein doors, Morene finish, leaded glass, painting, glazing, aqae stone. Contract awarded to A. Kirpich, 3211 West Oxford street, Philadelphia.

Stanfield Playground, Front and Lombard streets, Philadelphia. Architect, private plans. Owners, Estate of Richard Smith, deceased, Fidelity Trust Co., trustee, 325 Chestnut street, Philadelphia. Brick, steel, 1 story, 60x50 feet, slag roof, cement floors, steam heat, electric light, metal lath, ornamental iron work. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

Building, Ferry Road Playground, Northeast Corner Stillman and Christian streets. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Estate of Richard Smith, deceased, Fidelity Trust Co., trustee, 325 Chestnut street, Philadelphia. Brick, cut stone, reinforced concrete, steel, 2 stories and basement, 107x53 feet, slate roof, cement and pine floors, steam heat, electric light, tile and marble work, metal lath, bond, ornamental iron work. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia.

Building (alts.), 1024 Chestnut street, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Stanley Drug Co., on premises, Carpentry and mill work, plastering, dumb waiters, sheet rock, painting and glazing, electric work. Contract awarded Haverstick & Borthwick, Schaff Building, Philadelphia.

Manufacturing Building, Eighth and Duncannon streets, Philadelphia, $50,000. Architect, private plans. Owners, Dairy Maid Confectionery Co., 4925 North Broad street, Philadelphia. Brick, concrete, 1 story and basement, 50x203 feet, slag roof, steam heat, electric light. Contract awarded William Steele Sons Co., 219 North Broad street, Philadelphia, Pa.

Bank Building, Broad and York road and Sixty-seventh avenue, Philadelphia, $100,000. Architect, Ralph B. Bencker, Bellvue Court Building, Philadelphia.. Owners, Oak Lane Trust Co., Leon Lewis, on premises. Brick, cut stone, limestone, 3 stories and basement, 35x40 feet, slag roof, cement floors, metal lath, tile and terrazzo work, fire doors, bond, ornamental iron work, metal toilet partitions. Contract awarded Hesswin Co., 2047 Arch street, Philadelphia.

Church, Pratt and Castor road, Philadelphia. Architect, George C. Baum, 1511 Arch street, Philadelphia. Owners, St. James' Lutheran Church, care of architect. Stone, cast stone, steel, 1½ stories and basement, 66x44 feet, slate roof, maple and pine floors, plumbing, steam heat, electric light, ornamental iron work. Contract awarded Thomas C. Trafford, 1613 Sansom street, Philadelphia.

Garage (add.), Broad street and Boulevard, Philadelphia, $42,000. Architect, private plans. Owner, name withheld. Brick, concrete, steel, 2 stories, 56x75 feet, 18x41 feet, slag roof, cement floors, steam heat, oil burner, electric light, elevators, rolled steel sash. Contract awarded Albert Dunlap, 16 Evergreen road, Jenkintown Manor.

Manufacturing Building, State road, South of Rhawn street, Philadelphia, $70,000. Architect, private plans. Owners, Otto Engine Works, care of builders. Brick, steel, 1 story, 146x260 feet, steam heat, electric light, slag roof, cement floors, rolled steel sash, ornamental iron work. Contract awarded William Steele & Son, 219 North Broad street, Philadelphia.

Residences (18), South side Alcott street, West of Colgate street, $81,000. Architect, private plans. Owner, Anthony J. Sabia, 940 Lycoming street, Philadelphia. Brick, 2 stories, 15x28 feet, 11x8 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to J. E. Carl, 940 West Olney avenue, Philadelphia.

Fish House, 106 Pine street, Philadelphia, $5,000. Architect, private plans. Owners, Belovsky & Gravoff, 106 Pine street, Philadelphia. Brick, 1 story, 21x47 feet. Contract awarded to Benjamin Packer, 2435 South Fifth street, Philadelphia.

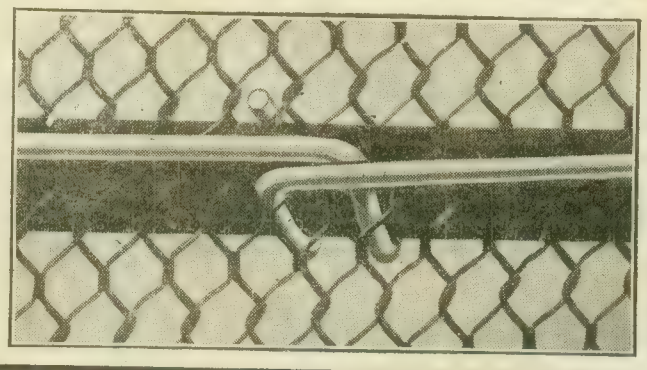
Garage, 4729 Bingham street, Philadelphia, $2,000. Architect, private p lans. Owners, Boyan & Flynn, 515 Erie avenue, Philadelphia. Brick, 1 story, 34x33 feet, slag roof, cement floors, electric work. Contract awarded to Edward B. Muller, 3935 North Marshall street, Philadelphia.

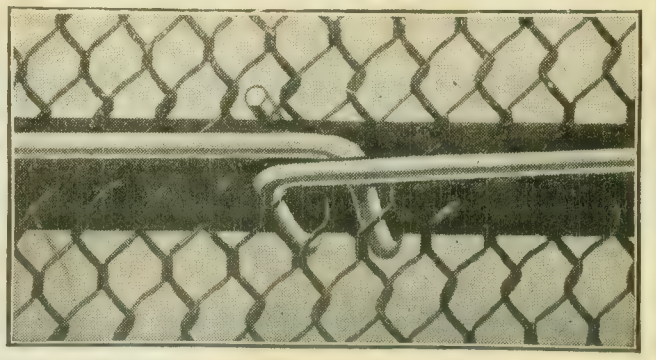
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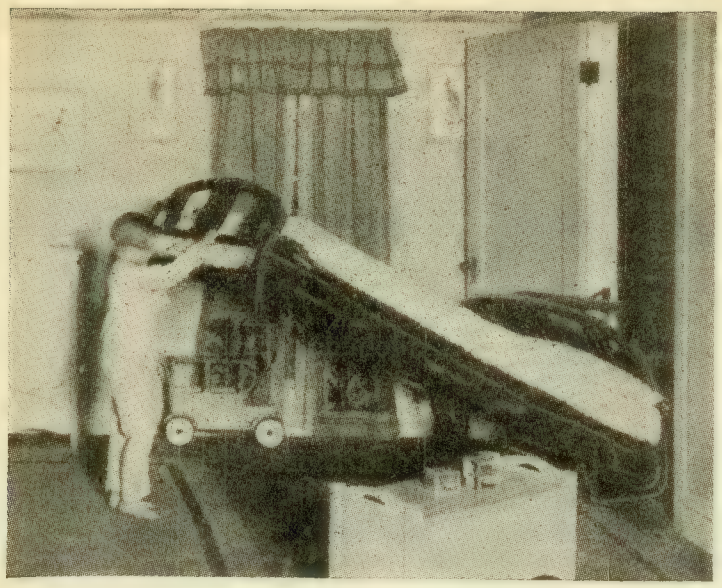
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Sales Building (add.), 5511 Walnut street, Philadelphia, $7,000. Architect, Clarence Wunder, 1520 Locust street, Philadelphia. Owner, Earl Mylecraine, on premises. Brick, steel, 1 story, 48x44 feet 6 inches add., slag roof, cement floors. Contract awarded to O. D. Coldren, 2065 South Sixty-fifth street, Philadelphia.

Residence, West side Dungan road, North of Shelmire street, Philadelphia, $6,000. Architect, private plans. Owner, Smith Craighead, 935 Spruce street, Philadelphia. Frame, 1 story, 25x33 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to I. Irving Knickerbocker, 7508 Montour street.

Residence (add. and alts.), 1403 North Third street, Philadelphia, $3,000. Architect, private plans. Owner, John McAreavy, 1718 South Nineteenth street, Philadelphia. Brick, 1 story add., 13 feet 8 inches x 8 feet, general alterations. Contract awarded to Acme Const. Co., 2025 North Sixty-second street, Philadelphia.

Church (basement), Southwest Corner Twenty-eighth and Thompson streets, Philadelphia, $12,500. Owners, Sanctuary Methodist Episcopal Church, on premises. Stone, 1 story, 36x66 feet. Contract awarded to Vincent Turner Co., 5432 North Second street, Philadelphia.

Residence, Southeast Corner Orchard and Crestmont streets, Philadelphia, $8,000. Architect, private plans. Owners, Crestmont Farm & Improvement Co., Torresdale, Pa. Frame, 2 stories, 23x34 feet, hardwood and pine floors, electric light, hot water heat. Contract awarded to Hugh Scott, 3343 North Bouvier street, Philadelphia.

Shop (alts.), Northeast Corner Hancock and Columbia avenue, Philadelphia, $7,300. Architect, private plans. Owners, Adelphia Paper Box Co., on premises. General alterations. Contract awarded to John Dillon & Son, 1804 North Front street, Philadelphia.

Store Building (add.), 4325 Main street, Philadelphia, $2,000. Architect, private plans. Owner, Joseph B. Chappell, 531 Fairthorne avenue, Philadelphia. Brick, 1 story add., 15x38 feet. Contract awarded to Adam Wilkinson, 439 Harman road, Philadelphia.

Residence (alts.), 22 Summit avenue, Philadelphia, $10,000. Architect, private plans. Owner, Mrs. Annie Reed, 518 East Graver's lane, Philadelphia. General alterations. Contract awarded to John Morrow, 8624 Germantown avenue, Philadelphia.

Garage, 925-27-29 Carpenter street, Philadelphia, $5,000. Architect, private plans. Owner, S. Texta, 904 Christian street, Philadelphia. Brick, 1 story, 48x54 feet, slag roof, cement floors. Contract awarded to S. Palia, 1714 Wolf street, Philadelphia.

Apartment House (alts.), 1223 Venango street, Philadelphia, $3,000. Architect, private plans. Owner, M. Moyer, 1823 Venango street, Philadelphia. General alterations. Contract awarded to James A. Quinn, 3531 Lancaster avenue, Philadelphia.

Residence (alts.), 263 South Van Pelt street, Philadelphia, $2,500. Architect, private plans. Owner, Henry E. Scherer, 1831 Spruce street, Philadelphia. General alterations. Contract awarded to Edward G. Krimmell, 1831 Spruce street, Philadelphia.

Residence, Wissahickon avenue and Mt. Airy avenue, Philadelphia. Architect, private plans. Owner, Eddie L. Boger, 248 Chestnut street, Philadelphia. Details undecided. Plans in progress. Contract awarded William G. Isles, 410 Levick street, Philadelphia.

Theatre, Thirty-first and Diamond Streets, Philadelphia. Architect, Wm. H. Lee, 1505 Race Street, Philadelphia. Owner, Louis Kapner, 213 South Road street, Philadelphia. Brick, concrete, terra cotta, 1 story and basement, 80x15 feet, slag roof, cement floors, steam heat. electric light, metal lath, tile and marble work. Contract awarded H. P. Schneider, 3713 Old York Road, Philadelphia.

Residence (add.), 2035 Spruce Street, Philadelphia, $6,000. Architect, private plans. Owner, Dr. Frank C. Knowles, 2022 Spruce Street, Philadelphia. Brick, 3 stories addition, 15x11 feet. Contract awarded to Chas. J. W. Platt, 625 North Sixth Street, Philadelphia.

Residence and Store (add.), 6506 Lebanon Avenue, Philadelphia, $3800. Architect, private plans. Owner, Bessie Cohen, on premises. Brick, 2 stories addition, 12x20 feet, slag roof, pine floors. Contract awarded to D. Mittenberg, 1510 N. 33rd Street, Phila-

Pennsylvania Construction News

Building (Hospital), near Elizabethtown, Pa. Architect, Thomas Martin and Kirkpatrick, 220 South Sixteenth Street, Philadelphia. Owner, State of Pennsylvania, Dr. C. Minor, Capitol Building, Harrisburg, Pa. Brick, steel, 3 stories and basement. Plans completed. Owner taking bids due about Sept. 20th.

Residence, Wynnewood, Pa. Architect, Heacock and Hokanson, 1211 Chestnut St., Philadelphia. Owner, George W. Shissler, 5931 Overbrook Avenue, Philadelphia. Stone, 2½ stories and basement, 107x77 feet, slate roof, oak and pine floors, electric light, tile work, plumbing, flagstone. Architect taking bids due September 2nd.

Bank Building (alts. and add.), Bristol, Pa. Architect, Heacock and Hokanson, 1211 Chestnut street, Philadelphia. Owner, Farmers' National Bank of Bucks County, J. R. Grundy, Pres., Bristol, Pa. Brick, stone, 1 story and basement. Ready for bids in 3 weeks.

Country Club, Torresdale, Pa. Architect, Heacock and Hokanson, 1211 Chestnut Street, Philadelphia. Owner, Torresdale and Frankford Country Club, care of C. Evans, Torresdale Avenue, Tacony, Pa. Plans about completed, ready for bids in 3 weeks.

Home (add.), Chatham, Pa. Architect, Franklin D. Edmunds, Real Estate Trust Building, Philadelphia. Owners, Macchabees International Home, Chatham, Pa. Concrete block and stucco, 1 story, 30x60 feet. Preliminary plans in progress.

Stores (5), Apartments (5), Drexel Hill, Delaware County, Pa. Architects, Mackenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 100x60 feet, slag roof, hardwood floors, hot water heat, electric light. Plans in progress.

Store, Apartments and Offices, Main street, Collegeville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, W. W. Harley, Trappe, Pa. Brick, steel, 3 stories, 40x70 feet, tin roof, maple and pine floors, plate glass, terra cotta, bond, bulks, steel and wood sash, electric light (heating reserved). Plans in progress.

Automobile Paint and Repair Works, Royersford, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Harvey F. Oehlert, Fifth and Chestnut streets, Royersford, Pa. Frame, steel, 2 stories, 60x92 feet, rubberoid roof, concrete and yellow pine

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floors(heating reserved), electric light, steel and wood sash, bond, woodworking, iron, general alterations. Plans in progress. Owner will take bids.

Garage, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, care of architects. Concrete block, 2 stories and basement, 38x60 feet, slag roof, concrete floors, steam heat, electric light, rolled steel sash. Plans in progress.

Dairy, Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Brick, 2 stories and basement, 28x50 feet, slag roof, concrete floors, steam heat, electric light, steel skylights. Plans in progress.

High School, Kingston, Pa., $675,000. Architects, Mack & Sahm, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Kingston School Board, W. H. Evans, secretary, Wilkes-Barre, Pa. Fireproof, 2 stories and basement, 276x180 feet, composition roof, maple and composition floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, ornamental iron, iron stairs, fire doors, steel sash and skylights, tile work, metal lath (heating, plumbing and electric separate). Plans in progress.

Residence and Hall, Scranton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Maywood College, Scranton, Pa. Fireproof, brick, steel, stone, 3 stories, 106x138 feet, composition and hardwood floors, hollow tile, metal lath, tile and marble work. Plans in progress.

Fraternity House, State College, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Thera Kappa Phi Fraternity, State College, Pa. Brick, stone, 3 stories, 120x34 feet. Plans in progress.

Garage, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Mr. Swartz, care of architect. Brick, steel, 1 story and basement, 114x144 feet, slag roof, concrete floors, electric light, steel sash. Plans in progress.

Store and Apartments (15), Swarthmore, Pa. Architects, The Stuckert Co., Crozer Building, Philadelphia. Owners, William A. Clarke & Co., Packard Building, Philadelphia. Brick, 3 stories, 125x195 feet, irregular, slate and slag roof, hardwood floors, hardware, steam heat, electric light, tile and terrazzo work, metal bulks. Owners will build.

Bank (add.), Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Bethlehem Trust Co., Broad and Main streets, Bethlehem, Pa. Granite, concrete, steel, 1 story, 40x50 feet, heating extension, electric light, marble work, bronze, ornamental iron, terra cotta. Architect taking bids.

High School, Swoyerville, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Swoyerville School Board, M. A. Lavin, secretary, Swoyerville, Pa. Semi-fireproof, 2 stories, 80x110 feet, slag roof, maple floors, hollow tile, safety treads, roof ventilators, steel skylights, metal lath (heating, plumbing and electrical work separate). Architect ready for bids.

Grade School, Wanamie, Newport Township, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Newport Township School Board, Mr. Shiffka, Glen Lyon, Pa. Semi-fireproof, 2 stories, 10 rooms, flat roof, maple floors, safety treads, electric light. Will be ready for bids in about one week.

Residences (6), Strafford, Pa. Architect, private plans. Owner, J. Howard Mecke, Jr., Packard Building, Philadelphia. Brick, stone, 2½ stories, 45x35 feet each, hot water heat, electric light, tile and marble work, slate roof, hardwood floors. O wner and builder, J. Howard Mecke, Jr., Packard Building, Philadelphia, taking sub-bids.

Residences and Garages (2), Overbrook Hills in Merion, Pennsylvania. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Kendall Marshall, Ventnor, N. J. Stone and frame, 2½ stories, 22x38 feet, 12x16 feet, brick and frame, 2½ stories, 22x43 feet, shingle roof, hardwood floors, central heat, electric light, tile and marble work. Owner ready for bids.

Residence and Garages (2), Drexel Park, Delawarke County, Pa. Architect, E. Allen Wilson, 1208 Chancellor sereet, Philadelphia. Owner, J. B. Rambo, Collingdale, Pa. Brick, 2 stories, 16x40 feet each, slag and asphalt shingle roof, hardwood floors, hot water heat, electric light, tile work. Owner ready for subbids.

Church (add.), Tamaqua, Pa. Architect, D. H. Grootenbeer, Schuylkill Trust Building, Pottsville. Owners, Trinity Reformed Church, Rev. A. C. Thompson, Tamaqua, Pa. Brick, 2½ stories add., 25x60 feet. Plans in progress. Architect wil lbe ready for bids about August 30th, due September 8th.

Church (add.), Pottsville, Pa., $30,000. Architect, D. H. Grootenbeer, Schuylkill Trust Building, Pottsville, Pa. Owners, First Reformed Church, Pottsville, Pa. Plans in progress. Will be ready for bids about August 30th.

Church and Sunday School (alts. and add.), Minersville, Pa. Architects, Charles W. Bolton & Son, Schaff Building, Philadelphia, Pa. Owners, Minersville Reformed Church, Rev. O. R. Frantz, Minersville, Pa. Brick, general interior and exterior alterations. Plans in progress. Architects will take bids in one week.

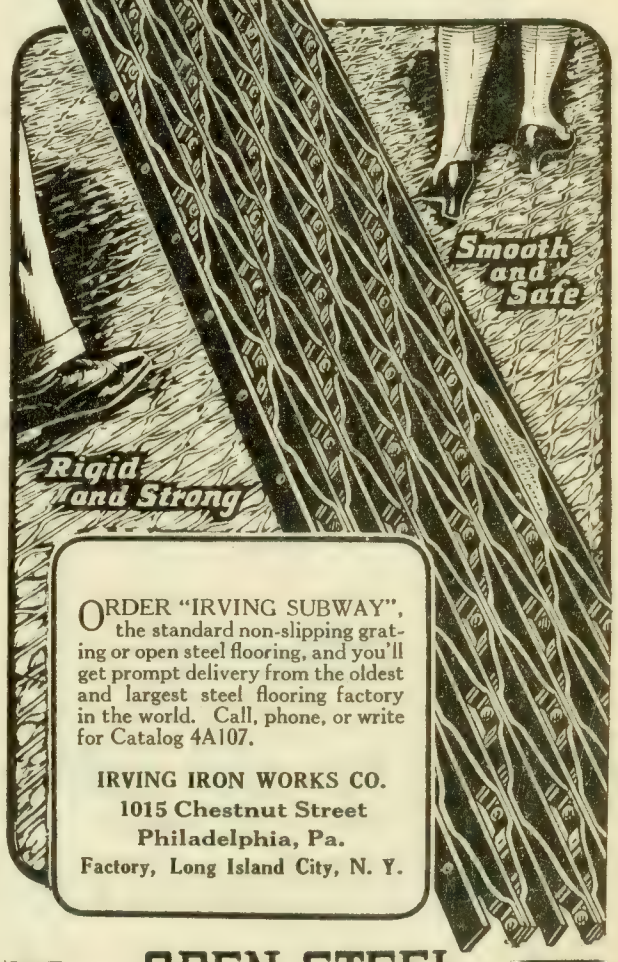
Swimming Pool, Whitehorse road, Paoli, Pa. Architects, Edwards & Hoffman, 313 South Fifteenth street, Philadelphia. Owner, R. Mason Lisle, on premises. Concrete, 60x20 feet, waterproofing, monolithic surface, plumbing, ornamental iron work. Architects taking bids due as soon as possible.

Store and Apartment, Narberth, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, H. J. Rittenhouse, Fifty-third and Vine streets, Philadelphia. Brick, stucco, 2 stories, 56x60 feet, slag and tile roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron. Architects taking bids due August 27th.

Hotel (alts. and add.), Sixth and Pennsylvania avenue, Pittsburgh, Pa. Architects, Webber & Wurster, 1530 Locust street, Philadelphia. Owners, Roosevelt Hotel Co., on premises. Brick, steel, concrete, 13 stories, 160x72 feet, slag roof, hardwood and reinforced concrete floors, hollow tile, elevators, steam heat, electric light, metal lath, tile and marble work, ornamental iron work. Architects taking bids due August 27th.

Passenger Station, Wernersville, Pa. Architect, S. T. Wagner, Reading Terminal Building, Philadelphia. Owners, Philadelphia & Reading Railway, Twelfth and Market streets, Philadelphia. Stone, steel, reinforced concrete, 1 story, 25x65 feet, Chapman slate

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New Tank Shop, Altoona, Pa. Architects, Office of Chief Engineer, William H. Cookman, Broad street, Philadelphia. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. Brick, steel, 2 stories and basement, 176x32 feet, slag roof, pine and cement floors. Owners taking bids due August 27th, 10 A. M.

School, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart School, care of Father Fink, Allentown, Pa. Brick, stone trim, steel, 3 stories and basement, 66x120 feet, built-up roof, hardwood floors, hollow tile, safety treads, roof ventilators, waterproofing and dampproofing, ornamental iron, iron stairs, fire doors, steel sash, metal lath (heating, plumbing and electric separate). Architects will be ready for bids next week.

Residences (8), Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, G. Snyder, Allentown, Pa. Brick, 2½ stories, 15x56 feet, slag roof, pine floors, hot water heat, electric light. Owner will build.

Hall, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Columbus Club, C. Plena, 207 Jerome street, Allentown, Pa. Brick, 1 story, 52x25 feet, slag roof, pine floors, steam heat, electric light, tile work. Owners will build.

Bank (alts. and add.), Wilkes-Barre, Pa. Architect, W. L. Stoddard, 50 East Forty-first street, New York. Owners, Miners' Bank of Wilkes-Barre, C. W. Laycock, president, Wilkes-Barre, Pa. Stone, steel, brick, 13 stories, 124x152 feet. Ready for bids in two months.

School, Port Griffith, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Jenkins Township School Board, J. Killian, secretary, Inkerman, Pa. Brick, 2 stories, 4 rooms, slag roof, pine floors. Low bidder: William B. Richards, Simon Long Building, Wilkes-Barre, Pa.

School, Boothwyn, Pa. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owners, Upper Chichester Township Board of Education, F. B. Albany, Boothwyn, Pa. Low bidders: Farrell-Roth Const. Co., Twenty-first and Walnut streets, $38,338; I. Demarest, 10 South Eighteenth street, Philadelphia, $39,440.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Owners taking bids due Sept. 8th at 10 A. M. Plans $2.50 per set.

Butler County, A-3875, Winfield Township, 25,122 feet. Three inch penetration surface course on reconstructed base course. Certified check $3500.

Cambria County, R-276, Sec. 7, A-3942, Adams and Richland Townships, 11,401 feet. One course reinforced concrete. Certified check $2500.

Clarion County, R-237, A-4234, Hawthorn Borough, 6936 feet. One course reinforced concrete. Certified check $1500.

McKean County, R-100, A-4992, Otto and Foster Townships, 26,872 feet. One course reinforced concrete. Certified check $3500.

Schuylkill County, R-464, A-3925, 3926, Gilberton and Shenandoah Boroughs, W. Mahanoy Township, 8607 feet. Bituminous surface course on a broken stone base. Certified check $2,000.

Somerset County, R-52, A-3971, Somerset Township, 16,124 feet. One course reinforced concrete. Certified check $3000.

Somerset County, R-222, Windber Borough, 2183 feet. One course reinforced concrete. Certified check $1500.

Susquehanna County, R-12, A- 4148, Springville and Dimock Townships, 14,997 feet. One course reinforced concrete. Certified check $3500.

Westmoreland County, R-181, A-4261, Rostraver Township, 8950 feet. One course reinforced concrete. Certified check $2,000.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Montgomery County, R-197, A-4278, New Hanover Township, 9,082. One course reinforced concrete. $66,947.75. Contract awarded to R. D. Richardson Const Co., Scranton, Pa.

Warren Co., R-89, Sec. 1, Pittsfield Township, 5448 feet. One course reinforced concrete. $38,168.52. Contract awarded to H. E. Bunce, Conneaut Lake Park, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Owners taking bids due Sept. 9th at 10 A. M. Plans $2.50 per set.

Blair Co., A-3575, Logan Township, 3152 feet. One course reinforced concrete. Certified check $1500.

Bradford County, R-13, A-4107, Asylum Township, 11,110 fet. Bituminous surface course treated macadam. Certified check $2500.

Bucks and Lehigh Counties, R-153, Richland, Springfield, Upper Saucon Townships and Coopersburg Borough, 33,564 feet. One course reinforced concrete. Certified check $4,000.

Bucks Co., R-150, Morrisville Borough, 2843 feet. One course reinforced concrete. Certified Check $1500.

Chester Co., A-4117, East Brandywine Township, 3650 fet. One course reinforced concrete. Certified check $1500.

Clinton Co., R-105, Sec. 3-4, Chapman, Grugan, Bald Eagle and Allison Townships, City of Lock Haven, 98,171 feet. Grading and drainage. Certified check $4000.

Clinton Co., R-105, Sec. 7, East Keaton and Noyes Townships, 59,552 feet. Grading and drainage. Certified check $4,000.

Dauphin Co., R-339, A-4160, 4161, Gratz Borough, Lykens Township, 15,740 feet. One course reinforced concrete. Certified check $2500.

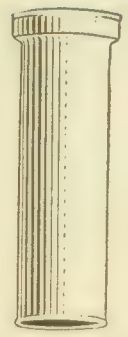
McKean Co., R-96, Keating Township, 1238 feet. One course reinforcing concrete. Certified check $1500.

Northampton Co., R-517, A-3909, Upper Mt. Bethel Township, Portland Borough, 10040 feet. One course reinforced concrete. Certified check $2500.

Northampton Co., R-165, Sec. 3, Lower Mt. Bethel Township, 4346 feet. One course reinforced concrete. Certified check $1500.

Westmoreland Co., R-119, Sec. 4a and 6, Unity Township, 4208 feet. One course reinforced concrete. Certified check $1500.

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Pennsylvania Contracts Awarded

Bank (add. and alts.), Wyoming avenue and Spruce street, Scranton, Pa. Architects, E. H. Davis and George M. D. Lewis, Board of Trade Building, Scranton, Pa. Owners, Traders' National Bank, J. J. Jermyn, president, on premises. Brick, stone, steel, fireproof, 2 stories, 55x45 feet, tile roof, marble and terrazzo floors, hollow tile, cabinet work, sheet metal work, metal window guards, waterproofing, cut stone, ornamental iron, plaster, bronze, kalamein doors, hollow metal sash, tile and marble, metal lath (heating, plumbing and electric separate). Contract awarded to Industrial Const. Co., Union Bank Building, Scranton, Pa.

Church, Jenkintown, Pa. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Grace Presbyterian Church, Jenkintown, Pa. Stone, cast stone, concrete, steel, 1 story, balcony and basement, 97x59 feet, green slate and slag roof, linoleum, pine and cement floors, plumbing, steam heat, electric

light, metal lath, rolled steel sash, marble work, bond, ornamental iron work, demolition, metal partitions, vapor heating, concrete block, celotex, painting and glazing. Contract awarded D. W. Sperry, Jefferson Building, Philadelphia.

Residences (alts. and add.), Villa Nova, Pa. Architects, Delano & Aldrich, 126 East Thirty-eighth street, New York City. Owner, Charles J. Rhoads, care of Brown Brothers, 330 Chestnut street, Philadelphia. Stone, 2½ stories and basement, 50x100 feet, slate roof, oak and pine floors, carpentry and mill work, plastering ,plumbing, hot water heat, electric light, metal lath, tile and marble, ornamental iron work. Contract awarded R. C. Ballinger, 925 Walnut street, Philadelphia.

Assembly Building (alts. and add.), Bustleton, Pa., $12,000. Architect, C. H. Fries, Drexel Building, Philadelphia. Owners, St. Luke the Beloved Physician Church, Rev. P. Micou, Bustleton, Pa. Stone, 16x20 feet, 10x30 feet, hot water heat, electric light, tile work, wood shingle roof, maple floors. Contract awarded Chancellor Day, 2644 Rhawn street, Fox Chase.

Residence, Ardmore, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, Winthrop C. Neilson, Bala, Pa. Stone, 2½ stories and basement, 36x44 feet, shingle roof, oak and pine floors, metal lath, bond, ornamental iron (plumbing, heating, electric reserved). Contract awarded to E. Allen Reeves, Abington, Pa.

Residence (alts. and add.), Hatboro, Pa., $11,000. Architect, A. Oscar Martin, Doylestown, Pa. Owner, A. Robinson, Hatboro, Pa. General alterations and additions, plumbing, heating, 22x15 feet add. Contract awarded to George Y. Blilie, Hatboro, Pa.

Residence (alts.), Perkasie, Pa., $12,000. Architect, A. Oscar Martin, Doylestown, Pa. Owner, Charles M. Meredith, care of architect. Hot water heat, electric light, tile work, hardwood floors, fireplaces, bookcases. Contract awarded to Stoneback & Nace, Quakertown, Pa.

Grade School, Berwick, Pa. Architects, W. W. Witman, Harrisburg, Pa., Mr. Heavner, Berwick, Pa. Owners, Board of Education, Berwick, Pa. Brick, cut stone, steel, 2 stories and basement, 145x59 feet, Johns Manville roof, composition and maple floors, roof ventilators, metal window guards, metal lath, bond, iron stairs, ornamental iron (heating, plumbing and electrical work separate). Contract awarded to J. C. Snyder, Selinsgrove, Pa.

Bank (alts. and add.), Millerstown, Pa. Architects, Kast & Kelker, 222 Market street, Harrisburg, Pa. Owners, First National Bank of Millerstown, A. Ulsch, Millerstown, Pa. Stone, 2 stories add., 24x78 feet, vault, general alterations. Contract awarded to J. C. Thompson, 2022 Brookwood street, Harrisburg.

Residence, Pittston, Pa. Architect, E. J. Rutledge, Brooks Building, Scranton, Pa. Owner, J. Bianco, Pittston, Pa. Brick veneer, 2½ stories, 34x46 feet, tile roof, hardwood floors, electric light, tile work. Contract awarded to Tabone & Barrare, 186 North Main street, Pittston.

Church, Lansdowne, Pa. Architects, Bureau of Architecture, Methodist Episcopal Church, 1709 Arch street, Philadelphia. Owners, Lansdowne Methodist Episcopal Church, Lansdowne, Pa. Stone, brick, reinforced concrete, steel, 2 stories and basement, 88x35 feet, slag roof, cement and composition floors, metal lath, hollow metal sash, kalamein doors, ornamental iron work, demolition, steel partitions, painting and glazing. Contract awarded Frank H. Wilson, Oakmont, Pa.

Residence (add. and alts.), Easton, Pa. Architect, William K. Michler, Drake Building, Easton, Pa. Owner, Edward Swift, 319 Clinton street, Easton, Pa. Brick veneer, 2½ stories, 60x70 feet, slate roof, hardwood floors, Warren Webster heat, electric light, tile work. Contract awarded to Bechtel & Bechtel, Northampton Bank Building, Easton, Pa.

Club House, Kennett Square, Pa. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owners, Women's Club, Kennett Square, Pa. Stone, 1 and 2 stories, 36x75 feet, shingle roof, maple and pine floors, steam heat, electric light. Contract awarded Paul Hannum, Kennett Square, Pa.

Residence, Elizabethtown, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, W. A. Withers, Elizabethtown, Pa. Stone, frame, 1½ stories, 35x60 feet, shingle or slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded Elizabethtown Planing Mill Co., Elizabethtown, Pa.

Residence and Garage, Elkins Park, Pa. Architect, Herman Miller, 1420 Chestnut street, Philadelphia. Owner, Mrs. R. A. Herr, Elkins Park, Pa. Stone, 2½ stories, 32x45 feet, 21x23 feet, garage 22x25 feet, shingle roof, hardwood and cement floors, hot water heat, electric light, tile work. Contract awarded Genther Brothers, Willow Grove, Pa.

Telephone Exchange, Nanticoke, Pa. Architect, John T. Windrim, 1201 Chestnut street, Philadelphia. Owners, Bell Telephone Co. of Pennsylvania, Harrisburg, Pa. Brick, 2 stories, 30x40 feet, slag roof, cement floors, hot water heat, electric light. Contract awarded Central Const. Co., Harrisburg, Pa.

Residence, Easton, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, care of architect. Stucco, 2 stories, 24x34 feet, asbestos roof, Celotex insulation, plumbing, electric wiring, yellow pine floors, steam heating. Contract awarded to Levi Bean, Wyncote, Pa.

School, Lehman, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Lehman Township School Board, Lehman, Pa. Contract awarded to Guy Woolbert, Shavertown, Pa.

Cleveland School, Plains, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Plains School Board, A. J. Zawoicki, secretary, Wilkes-Barre, Pa. Frame, 2 stories, 2 rooms, flat roof, pine floors, heating extension, electric light (heating, plumbing and electric separate). Contract awarded to Anthony Grosek, Plains, Pa.

Store Building (alts.), Narberth, Pa. Architects, Gravell & Hall, Otis Building, Philadelphia. Owner, name withheld. Brick work, concrete and cement work, art stone, iron work, bronze, carpentry and mill work, slag roof, painting and glazing, metal lath, plastering, marble work, tile work, plumbing, steam heat, electric light. Contract awarded A. V. Gilchrist, Drexel Building, Philadelphia.

New Rectory, Mt. Carmel, Pa. Architect, George I. Lovatt, 223 South Sydenham street, Philadelphia. Owners, Our Lady of Mt. Carmel Parish, Mt. Carmel, Pa. Brick, cast stone, 3 stories, 75x36 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded Mt. Carmel Lumber & Const. Co., Mt. Carmel, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Clearfield County, A-3794, 3794A, Sandy Creek Township, bridge. Contract awarded to Milliron Const. Co., Dubois Pa., $12,163.24.

Pike County, R-7, Sec. 1-2, Shohola, Dingman, Lackawaxen, Blooming Grove Town-

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ships. W. B. macadam surface course. Contract awarded to David Schoentag, Inc., Saugerties, N. Y., $167,933.25.

Jefferson County, R-358, A-4012, 4041, Winslow Township, 22,440 feet. One course reinforced concrete. Contract awarded to Fort Pitt Const. Co., Pittsburgh, Pa., $168,327.95.

Montgomery County, R-362, A-3916, Abington Township. One course reinforced concrete. Contract awarded to Dalton Brothers, Paoli, Pa., $45,806.12.

Warren and Forest Counties, R-93, S-2 and 1, Limestone and Hickory Townships. One course reinforced concrete. Contract awarded to Kirkpatrick & Wallis, Johnsonburg, Pa., $266,787.32.

Erie County, R-87-258, Mill Creek, Harbor Creek Townships, Wesleyville Borough. One course reinforced concrete. Contract awarded to Winter & Yaple, Erie, Pa., $93,269.12.

New Jersey Construction News

School, Gloucester, N. J. Architect, Edwards and Greene, Camden, N. J. Owner, Board of Education, Gloucester, N. J. Low bidders: Fred Lange, Audubon, N. J., $236,471. Wills Bill Co., 1706 Sansom street, Philadelphia, $242,222. All bids rejected.

Residence, 1032 Reeves Avenue, Camden, N. J. $3500. Architect, private plans. Owner, J. K. Clouser, 343 Vine Street, Camden, N. J. Frame, 2 stories, 16x30 feet, slag roof, pine floors, hot air heat, electric light. Permit issued.

Convent, Fourth and Division streets, Camden, N. J. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Our Lady of Mt. Carmel Roman Catholic Church, Rev. B. C. Shea, on premises. Stone. Plans in progress.

Factory, Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Schammell China Co., Third and Landing streets, Trenton, N. J. Brick, steel, 2 stories, 145x47 feet. Plans in progress.

Administration Building, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City. Owners, Atlantic City Board of Education, H. H. Young, secretary, Atlantic City, N. J. Fireproof, 3 stories, 47x120 feet, slag roof, hardwood floors, elevators, terra cotta and stone, tile and marble. Plans in progress.

Office Building and Apartment, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, D. J. Adams, Real Estate and Law Building, Atlantic City, N. J. Brick, stone, steel, 3 stories, 33x172 feet, slag roof, hardwood floors, city heat, electric light, tile and marble, fire escape. Plans in progress.

Residence, West Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, Judge Ingersol, care of architect. Brick, stucco, 3 stories, 30x72 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Revised plans in progress.

Fire House, Ventnor, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Ventnor, Ventnor City, N. J. Brick, steel, 2 stories, 60x120 feet, slag roof, composition floors, electric light, steel sash. Architect ready for bids.

Garage, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owners, Yellow Taxicab Co., care of architect. Semi-fireproof, 2 stories, 112x155 feet, slag roof, concrete floors, elevators, hot water heat, electric light, metal lath, steel skylights. Architect ready for bids.

Office, Normandy Shores, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, Gilbert Harris, Virginia and Pacific avenues, Atlantic City, N. J. Brick, frame, 1½ stories, 30x30 feet, tile roof ,hardwood floors, hot water heat, electric light, tile and marble. Owner taking bids.

Church, Highland Park, New Brunswick, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, All Saints' Church, care of architects. Brick, hollow tile, 1 story and basement, 88x38 feet, slate roof, maple floors, oil burner, electric light, leaded glass, cut stone. Architects ready for bids.

Church, Flemington, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Flemington Baptist Church, Rev. Dr. Wilson, Flemington, N. J. Brick, steel, 1 story and balcony, 45x100 feet, slate roof, maple floors, hollow tile, ornamental iron, metal lath, steam heat, electric light. Architects ready for bids due September 1st.

School (add.), Vincentown, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Southampton Township School Board, H. S. Stackhouse, Vincentown, N. J. Brick, steel, 1 story, 66x80 feet, slate roof, maple floors. All bids rejected. Revised plans in progress.

Residence, Spring Lake, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, W. M. Butler, 4501 Chester avenue, Philadelphia, Pa. Hollow tile, stucco, 2 stories and basement, 28x50 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids.

Hotel, Ocean City, N. J. Architect, Richard R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Hollow tile, stucco, 2 and 3 stories, 100x100 feet, slag roof, oak, pine and cement floors, hot water heat, electric light, metal lath, tile work. Plans in progress.

School, Labor Tract, Hamilton Township, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Hamilton Township School Board, W. A. Robinson, District Clerk, Greenwood School, Trenton, N. J. Brick, steel, 2 stories and basement, 146x128 feet, slag roof, maple floors, metal lath (heating, plumbing and electric separate). Architect taking bids due August 31st.

Residences (2), 1285-87 Van Hook street, Camden, N. J., $7,000. Architect, private plans. Owner, A. Kincher, 1527 Norris street, Camden, N. J. Brick, 2 stories, 14 feet 6 inches x 54 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Buildings (7) (alts. and add.), Lake Denmark, N. J. Architect, private plans. Owners, Department of Yards and Docks, Naval Department, L. E. Gregory, Washington, D. C. Hollow tile, wood purilins, galvanized steel gutters, asbestos built-up roof, cement floors. Plans may be obtained from Commandant, Third Naval District, New York City. Owners taking bids due September 1st, 11 A. M.

Bettlewood School, Cedar and Johnson avenues, Haddon Township, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Haddon Township, Camden County, N. J. Brick, limestone, cut stone, granite, steel, 2 stories and basement, 61x59 feet (plumbing, heating, electric separate), slag roof, pine, maple and cement floors, metal lath ,tin-lined doors, kalamein doors, bond, ornamental iron work, truscon waterproofing, cement block. Gouchester Heights School (add.), 2 stories and basement, 61x42 feet. Certified check, 2 per cent. of bids. Owners, care of Mr. James R. Gwen, clerk, Westmont, N. J., taking bids due August 30.

School, Aura, Gloucester County, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Elks Township School Board, Gloucester County, N. J., care of architect. Brick, steel, 2 stories, 135x60 feet, slate roof, maple floors (heating, plumbing, electric separate), hollow tile work, safety treads, roof ventilators, concrete stairs. Owners taking bids due August 31st.

Building (Camden Gas Works), Front and Chestnut streets, Camden, N. J. Architect, R. J. S. Pigott, construction engineer, 800 Park Place, Newark, N. J. Owners, Public Service Electric & Gas Co., Terminal Building, Newark, N. J. Brick, concrete, steel, 2 stories and basement, 63x98 feet, slag roof, cement floors, electric light, rolled steel sash, hollow metal doors, ornamental iron work, bond. Owners taking bids due August 27th.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J.

Route 4, Section 3B, widening, South Amboy, Middlesex County. Excavation, rock excavation, double line nine-inch reinforced concrete pavement.

Route 12, Section 8, Passaic River Bridge at Pine Brook to Fairfield, Essex County. Excavation, borrow, double line reinforced concrete pavement. Cereified check, 10 per cent. Deposit, $10. Owners taking bids due August 30th at 11 A. M. (Standard Time).

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secreeary, Broad Street Bank Building, Trenton, N. J. Bridges (2), Route 8, Section 8, Sussex to Hamburg, Sussex County, M. P. 37.4, Branch of Wallkill Creek, span 8 feet; M. P. 39.3, Beaver Brook, span 20 feet. Low bidder: Dean C. Jenkins, Dover, N. J., $9,985.95. Route 8, Section 7, Stockholm-Beaver Lake, Morris, Passaic and Sussex Counties; low bidders, Winston & Co., Midvale, N. J., $599,297.72. Widening of (5) Bridges on Route 7, Section 6, between Freehold and Hightstown, Monmouth County; low bidders, Hill Const. Co., Mt. Holly, N. J., $31,509.10.

New Jersey Contracts Awarded

Church (add.), Fourth street, between Market and Arch streets, Camden, N. J., $1900. Architect, private plans. Owners, First Baptist Church, Camden, N. J. Owners, First ries addition, 17x22 feet, slag roof, pine floors. Contract awarded to Robert Mills, West Collingswood, N. J.

Store Front, North Broad street, Trenton. N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, S. P. Dunham & Co., Broad and State streets, Trenton, N. J. Plate glass, copper work, steel, tile and parquetry floors, reinforced concrete, marble, brass, cut stone. Contract awarded to Fred Parker, 327 Calhoun street, Trenton, N. J.

Bank, Prospect street, Trenton, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Prospect National Bank, care of architect. Brick, stone, 1 story, 50x65 feet, slag roof, pine, marble and linoleum floors, steam heat, electric light, eile and marble, vault, bronze, ornamental iron, architectural stone. Contract awarded to S. W. Mather & Son, 300 Maple avenue, Trenton, N. J.

Factory (fire rebuilding), Trenton, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owner, D. Manson Sutherland, Broad Street Bank Building, Trenton. Brick, concrete, 2 and 1 stories, 50x175 feet, slag roof, concrete floors, roof ventilators, iron stairs, fire doors, steel sash. Contract awarded to Karno-Smith Const. Co., Broad Street Bank Building, Trenton, N. J.

Residences (10), 2572-98 Baird Boulevard, Camden, N. J., $50,000. Architect, private plans. Owners, Baird Boulevard Homes Co., Camden, N. J. Brick, 2 stories, 19x42 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to R. Schaal & Sons, 2719 Pierce avenue, Camden, N. J.

Residences (12), 525-47 Woodland avenue, Camden, N. J., $36,000. Architect, private plans. Owners, Maxwell-Smith Corporation, Camden, N. J. Brick and block, 2 stories, 15 feet 9 inches x 39 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Smith Brothers, Collingswood, N. J.

Building (alts.), 23-25 Broadway, Camden, N. J., $25,000. Architect, private plans. Owner, Charles Segall, on premises. General alterations into offices. Contract awarded to H. Krakover & Sons, 837 North Forty-first street, Philadelphia.

Building, 2402-04 Federal street, Camden, N. J., $20,000. Architect, private plans. Owner, J. W. F. Bleakly, 2600 Federal street, Camden, N. J. Brick and block, 1 story, 40x100 feet, slag roof, electric light. Contract awarded to George Bachman, 19 North Thirtieth street, Camden, N. J.

Residence, 143 Mt. Vernon street, Camden, N. J., $3,200. Architect, private plans. Owner, R. L. Mack, 1025 South Second street, Camden, N. J. Block, 2 stories, 19x28 feet, slag roof, hot air heat, electric work. Contract awarded to Joseph Mitchell, Camden, N. J.

Building, 15-17 North Twenty-third street, Camden, N. J., $3,100. Architect, private plans. Owners, Camden Plating Co., Camden, N. J. Block, 1 story, 30x50 feet, asphalt roof, electric work. Contract awarder to Earl L. Applegate, 122 North Forty-second street, Camden, N. J.

Garages (10), 2825 Tyler avenue, Camden, N. J., $3,000. Architect, private plans. Owner, Louis Waisban, Twenty-eighth and Polk avenue, Camden, N. J. Block, 1 story, 10x18 feet, slag roof, cement floors, electric work. Contract awarded to Emery Hawk, 1202 North Twenty-eighth street, Camden, N. J.

Building (alts.), 2119-21 Federal street, Camden, N. J., $2,850. Architect, private plans. Owner, William C. Davis, Collingswood, N. J. General alterations, partition work, changing into salesroom. Contract awarded to William Wrifford, 724 Washington street, Camden, N. J.

Store and Residence (add.), 527 Stevens street, Camden, N. J., $8,000. Architect, private plans. Owners, Esslinger & Brown, 508 Market street, Camden, N. J. Block, 2 stories, 16x44 feet, slag roof, cement floors, electric work. Contract awarded to Frank Shissler, 461 North Thirty-eighth street, Camden, N. J.

Residence, 2827 Clinton street, Camden, N. J., $7,850. Architect, private plans. Owner, James Talarica, Camden, N. J. Brick, 2 stories, 26x34 feet, asbestos roof, hot water heat, electric light. Contract awarded to Samuel A. Mayberry, Jr., Merchantville, N. J.

Store (add.), 433 Kaighn avenue, Camden, N. J., $6,200. Architect, private plans. Owner, Sadie Bodner, on premises. Brick and block, 1 story add., 4x40 feet, 16x27 feet, slag roof. Contract awarded to W. C. Magee, 315 Cattell avenue, Collingswood, N. J.

Building (alts.) to Apartments, 115 North Third street, Camden, N. J., $5,000. Architect, private plans. Owner, A. S. Cades, 300 Cooper street, Camden, N. J. Brick, 3 stories add., 20x30 feet 6 inches, slag roof. Contract awarded to William Coulter, 121 North Fourth street, Camden, N. J.

Building (add.), 205-07 Market street, Camden, N. J., $4,500. Architect, private plans. Owners, Murphy Brothers, 201 Market street, Camden, N. J. Block, 1 story add., 18x23 feet, slag roof, new store fronts. Contract awarded to Joseph D. Hill, Collingswood, N. J.

Garages (9), 803-05 Walnut street, Camden, N. J., $4,300. Architect, private plans. Owner, Frank Rose, Camden, N. J. Block, 1 story, 10x18 feet, slag roof, cement floors, electric work. Contract awarded to Theodore Hubbs, 321 Penn street, Camden, N. J.

Residence and Garage (add.), 229-31 Mickle street, Camden, N. J. Architect, private plans. Owner, Daniel Capone, 231 Mickle street, Camden, N. J. Block, residence, 1 story, 20x22 feet add., garage, 1 story, 20x15 feet, slag roof, cement and pine floors, electric light. Contract awarded to John Mansoleno, 6223 Girard avenue, Philadelphia.

Building, 410-12 Walnut street, Camden, N. J., $11,000. Architect, private plans. Owner, J. L. Ferrari, 414 Walnut street, Camden, N. J. Block, 2 stories, 20x100 feet, slag roof, electric lighting. Contract awarded to Salvatore Iozzi, 938 South Fourth street, Camden, N. J.

Residence (alts.) to Apartments, 321 Cooper street, Camden, N. J. Architect, private plans. Owners, P. Harding and John Kates, 517 Federal street, Camden, N. J. General interior alterations into apartments. Contract awarded to John C. Gibson, 611 Bailey street, Camden, N. J.

Apartment Building (alts.), 328 Cooper street, Camden, N. J., $2,500. Architect, private plans. Owner, William A. Levick, 5631 Wyndale avenue, Philadelphia. General alterations (interior) to four-family apartment, fire escape. Contract awarded to A. Lawrence, 5900 Oxford street, Philadelphia.

Cottage, Ventnor, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, care of architect. Brick, 2 stories, 35x35 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Philip G. Hannum, Georgia avenue and Thorofare, Atlantic City, N. J.

Bank, Margate City, N. J. Architect, C. H. Adams, Chelsea Bank Building, Atlantic City, N. J. Owners, Margate Trust Co., care of architect. Brick, steel, stone, 2 stories, 45x80 feet, tile an dslag roof, tile, marble and concrete floors, hollow tile, metal window guards, ornamental iron work, bank fixtures, tile work, metal lath, electric work. Contract awarded to Philip G. Hannum, Georgia avenue and Thorofare, Atlantic City, N. J.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Bridges (2). Route 20, Sec. 6, M. P. 13.8 and 15.4; contract awarded to F. W. Schwiers, Jr., Co., 90 West street, New York, $29,351.20. Route 4, Section 34A, Cliffwood-Keyport Cut-off; contract afarded to Decker & Canning, Inc., Newark, N. J., $273,577.51.

Miscellaneous Construction News

Rectory, Wilmington, Del. Architect, Geo. I. Lovatt, 225 S. Sydenham Street, Philadelphia. Owner, St. Peter's Pro-Cathedral, Rt. Rev. Bishop Fitzmaurice, Wilmington, Del. Brick, 3 stories, 40x100 feet, composition or tin roof, hardwood floors, electric work, tile work. Ready for bids in a few days.

Miscellaneous Contracts Awarded

Residence, Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, S. B. Bird, 2205 Park avenue, Wilmington, Del. Brick, stone, 3 stories, 69x20 feet, 27x20 feet, shingle roof, hardwood floors, hollow tile, tile and marble work, electric light. Contract awarded to W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Pro-Cathedral (alts. and add. and restoration), Wilmington, Del. Architect, George I. Lovatt, 225 South Sydenham street, Philadelphia. Owners, St. Peter's Pro-Cathedral, Rt. Rev. Bishop Fitzmaurice, Wilmington, Del. General alterations and restoration, tile and marble work, electric lighting, carpentry and mill work. Contract awarded J. E. Healy Co., Wilmington, Del.

(Continued from page 536)

Installment selling, intensified competition—even that form of competition that approximates pure speculation—expansion in advertising, in fact all the factors named by Mr. Dodd are decidedly active in the construction industry at this time.—*The American Contractor.*

TILE
MARBLE
MOSAIC
CERAMICS
Camden Tile Co.
1484 Bradley Avenue
CAMDEN, N. J.
BELL PHONE
CAMDEN 3827 W

GENERAL INSURANCE
SMITH-AUSTERMUHL CO.
5th and Market Streets, Camden, N. J.
BELL PHONE, CAMDEN 3210
KEYSTONE, CAMDEN 3147
SURETY BONDS

SIX BILLION A YEAR FOR HOMES FACTORIES AND GENERAL CONSTRUCTION

Six billion dollars is a reasonable estimate of what the nation is spending for construction each year according to John M. Gries, Chief of the Division of Building and Housing, in a survey published in the new Department of Commerce Yearbook.

In spite of the magnitude of this program, according to Dr. Gries, it is only recently that the building of houses and construction of buildings, roads, canals, bridges, railroads, harbor works, subways, tunnels, water-supply systems, and other work that produces a more or less fixed structure or alteration of the natural topography, have been clearly recognized as a single industry.

The importance of the construction industry is hard to overemphasize. In value of product it ranks considerably above the automobile industry, the largest manufacturing industry, and about on a par with railway operating receipts. Variations in construction activity from year to year have a large share in determining the prosperity of other major industries such as railways and lumber mills. Construction affects scores of manufacturing industries, and bears some relation to retail trade and to the individual incomes of practically every family in the country.

Existing construction underlies the whole economic organization of the country. The production of its manufacturing industrits is carried on mainly in buildings, of course, but depends even more on the physical network of railways, highways, telephone and teltgraph systems, and lines for the transmission of power and water, all of which are in large measure the products of construction. Living standards of the people depend very largely on the character of dwellings, on the availability of water, sewerage, gas, and electricity, and the accessibility of varied recreational facilities, and on the streets and roads which enable them to get from place to place. There is a measurable relation between the character of dwellings and health. The schools require a great number of buildings in order to do their work effectively.

The volume and character of new construction is of great importance. The million and a half to two million increase in population each year requires new dwellings, increased manufacturing facilities, and increased public utilities and other types of construction. Structures worn out or destroyed must be replaced. If living standards are to improve and people are to occupy better houses, continued large construction programs are needed. Some types of construction add to the productivity of industry. In general, progress depends largely on the Nation's devoting a due proportion of its energies to construction.

As Secretary Hoover has stated, "Our national savings are accumulating at an unparalleled rate, and it is especially desirable to have them invested now in domestic permanent capital improvements which contribute directly to the well-being of our people, for by such devotion of our savings we both encourage thrift and raise the standard of living."

Probably half the construction in the United States today, measured in value, is less than 30 years old, and another 30 years hence a backward look to the present is likely to show a similar situation.

FIRE RESISTANCE OF HOLLOW BUILDING TILE DETERMINED AT BUREAU OF STANDARDS

8-Inch Walls Adequate for Residences

Teests to show the behavior of tile walls in burning buildings, which the Bureau of Standards, Department of Commerce, has been conducting on hollow tile in co-operation with the Hollow Building Tile Association, were reported in a paper read before the building officials of the principal cities of the United States at their recent annual meeting in Columbus, Ohio.

These tests were planned to yield more information on the properties of hollow tile, such as the strength of tile walls, and more especially the fire resistance of such walls. This report was concerned principally with the fire tests.

Two sizes of walls were tested—one 16 feet long and 11 feet high, the other 4 feet long and 4 feet high. The walls were built just as they would be built in a building and when they had aged a month or more they were placed to form one side of the furnace in which the tests were made. The fire in the furnace was regulated during the test so as to approximate that obtained in severe fires in burning buildings.

The tests show the ability of tile walls to carry load during the burning of a building and also to prevent the spread of fire when they are used as party or fire walls. They show that 8-inch tile walls would be adequate for residence and office buildings and institutions in which no considerable amount of combustible material is allowed to collect.

For stores or factories containing only a moderate amount of combustible material a 12-inch wall would be required. For factories having a considerable amount of combustible material or for warehouses, a wall heavier than 12 inches would be required, particularly if the wall is not plastered.

The results of these tests are considered of great value to the industry and the public, as well as to the building commissioners, in that they give reliable information on the extent to which hollow tile walls can be relied upon for protection in case of fire.

"The special pamphlet on "PERTINENT POINTS ON BUILDING INVESTMENT" just prepared by the Better Building Committee of the AMERICAN CONSTRUCTION COUNCIL gives suggestions on the more important things that the public should keep in mind in buying real estate securities on contemplated or new building construction. Being representative of the opinion of all component parts of the construction industry that go to make up the Council it is impartial in nature and therefore carries unusual weight.

"Certainly no question is of more far-reaching scope or greater importance to all elements of our citizenship than the question of better building. In some fashion or other it hits us all—as investors, owners, manufacturers, designers of buildings, employers, labor, renters, payers of insurance, and the like. Questions of health, safety and comfort of living also enter into it.

"One of the most important phases of the entire problem of better building is the sound financing of building structures from the standpoint of the protection of the public who buy building securities.

"The average member of the investing public whose money goes into mortgage bonds or other forms of financing building construction seldom possesses the information necessary to make a wise selection of securities, nor does he appreciate what points such data should cover.

"Some real estate securities are good; some are bad; some are fair; some are highly speculative. Every building must be considered as a separate problem.

"There are many items that go to make up a sound real estate security, and they must be borne in mind by the building investor.

"Taking for granted such points as a reliable loaning institution and proper location and design for the purpose for which the building is needed, the most important thing is of course first class construction.

"The passing of the acute building shortage with its short-lived building boom, and the return to normal consideration of building costs and values makes structures of inferior quality an increasingly heavy liability.

"The public must be most cautious about the kind of construction on which, and the concerns to whom it lends its money for building investment."

Copies of this pamphlet can be secured from American Construction Council, 28 W. 44th St., New York City.

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
rchitectural Cast Cut Stone Co.....Westmont, N. J.

AREA GRATINGS
rowhead Iron Works of Pa., Inc.,
65th and Chester Ave., Phila.
ving Iron Works.....1015 Chestnut St., Phila.

ARTESIAN WELLS
ldpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES
obbins, Chas. H., Co. ....1729 Sansom St., Phila.
ie Atlas Blue Print Co.....34 S. 16th St., Phila.
eber, F. Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS
ue Print Shop .....1520 Sansom St., Phila.
obbins, Chas. H., Co. ....1729 Sansom St., Phila.
ie Atlas Blue Print Co.....34 S. 16th St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER
ue Print Shop .....1520 Sansom St., Phila.
obbins, Chas. H., Co. ....1729 Sansom St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS
vezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK
x, Janeway, & Co..Real Estate Trust Bldg., Phila.
M. & C. M. Siner.Church and Tacony Sts., Phila.
celsior Brick and Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving)
tcham, O. W. .....121 N. 18th St., Phila.

BUILDERS
tchell Bros. .....2125 Race St., Phila.
seph Rotornado .....4740 Milnor St.. Phila.

BUILDERS' SUPPLIES
rvice Supply Corporation,
20th and Venango Sts., Phila.
e Van Sciver Corporation,
The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK
iskey Mfg. Co...Columbia and Howard St., Phila.

CAST STONE
chitectural Cast Cut Stone Co.....Westmont, N. J.

CEMENT
e Van Sciver Corporation,
The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK
Lauro, John .....7732 Ardleigh St., Phila.
ssiah, Frederick..Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
rezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)
arce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE SEWER PIPE
oudsburg Septic Tank Co..328 Chestnut St., Phila.

CONCRETE WORK
ssiah, Frederick..Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
T. Ward Co. .....617 Filbert St., Phila.
vice Supply Corporation..20th and Venango Sts.

CORK FLOORING
ezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.
by Battersby & Co. .....810 Noble St., Phila.

CURTIS WOODWORK
lingham Co.....Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS
ilding News Pub. Co.....1530 Chestnut St., Phila.

DAMPPROOFING
i-Hydro Waterproofing Co.,
24th and Parkway, Phila.
rnett Bingswanger.....829 N. 3rd St., Phila.
ncrete Waterproof Paint Co..829 N. 3rd St., Phila.
ster Builders Co. .....Otis Bldg., Phila.
scon Laboratories .....1505 Race St., Phila.

DOOR BEDS
rphy Door Bed Co.....512 Bulletin Bldg., Phila.

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obins. Chas. H., Co.....1729 Sansom St., Phila.
Atlas Blue Print Co.....34 S. 16th St., Phila.
ber, F., Co. .....125 S. 12th St., Phila.
il, J. H., Co. .....1315 Cherry St., Phila

FENCES
tit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
ts, Horace T., & Co...Erie Ave. & "D" St., Phila.
sbord, Wolf .....4437-43 Ludlow St., Phila.

FINANCING (Building)
mercial Advance Corp., 1011 Chestnut St., Phila.
tgage Extension Corp., 1011 Chestnut St., Phila.

FIREPROOFING
rce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES
. Lingo & Son .....Camden, N. J.

FLOOR HARDENER
i-Hydro Waterproofing Co., 24th and Parkway
crete Waterproof Paint Co..829 N. 3rd St., Phila.
ter Builders Co. .....Otis Bldg., Phila.
scon Laboratories .....1505 Race St., Phila.

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Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

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Fleck Bros. Co. .....50 N. 5th St., Phila.

GAS RANGES
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelhia Gas Range Co. ...1026 Arch St., Phila.
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John Meehan & Son .....916 W. Dakota St., Phila.

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Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway & Co...Real Estate Trust Bldg., Phila.
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Edwin Elliott Co. .....560 N. 16th St., Phila.

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Insurance Co. of North America.....1600 Arch St.
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Smith-Austermuhl Co. .....Camden, N. J.

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Nicetown Plate Washer Co..
1844 W. Juniata St., Phila.
Potts, Horace T. & Co....Erie Ave. and D St., Phila.
Wood, Alan, Iron & Steel Co...Widener Bldg., Phila.

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DeCou, Richard Co.....11th and Noble Sts., Phila.
Lederle, Robt. B., & Co...Witherspoon Bldg., Phila.
Livezey, Thos. H...American and Luzerne Sts., Phila.
Montgomery Iron & Steel Co.918 W. Berks St., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
Pettit, Frank, Orna. Iron Works,
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Reisbord, Wolf .....4437-43 Ludlow St., Phila.
Whartenby, Harry A. .....10 S. 18th St.. Phila

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Weil, J. H., Co. .....1315 Cherry St., Phila.

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Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LIGHT IRON CONSTRUCTION
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LINOTILE
Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

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Gillingham Co. ..Norris and Richmond Sts., Phila.
Kethcam, Howard.....3rd and Girard Ave., Phila.
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Camden Tile Co. .....Camden, N. J.
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Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

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Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
John S. Raynor .....2300 E. Lehigh Ave., Phila.

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Warren-Ehret Co. .....Luzerne and "E" St., Phila.

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20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" St., Phila.

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Chapman Slate Co. .....Bethlehem, Pa.

ROOFING TILE
Ketcham, O. W. .....121 N. 18th St., Phila.

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Hamilton Rubber Mfg Co. ..2317 Walnut St., Phila.
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e Van Sciver Corporation,
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Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

SEWAGE EJECTORS
Stroudsburg Septic Tank Co..328 Chestnut St., Phila.

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SHEETROCK (Wall Board)
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
aw, James & Son Co.,
52nd and Woodland Ave., Phila.

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Edwin Elliott Co. .....560 N. 16th St., Phila.

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Allegheny Ave. and Tulip St., Phila.

STONE
St. Martin's Building Stone,
Germantown Ave. & Rumford Rd., Chestnut Hill, Pa.

"SURETY BONDS"
Smith-Austermuhl Co. .....Camden, N. J.

TERRA COTTA (Architectural)
Conkling-Armstrong Terra Cotta Co.,
1600 Arch St., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

TERRA COTTA SEWER PIPE
ausen, Wm. H. .....27th and Diamond Sts., Phila.

TILE AND TERRAZZO WORK
Belfi Bros. Co. .....1923 Market St., Phila.
Camden Tile Co. ..... Camden, N. J.
Italian Marble Mosaic Co. ....433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.
Roman Mosaic & Tile Co. ....435 Green St., Phila.

TRANSITS
Robbins, Chas. H., Co. .....1729 Sansom St.. Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

VENEERS (Wood)
H. C. L. Miller .....1101 N. Front St., Phila.

WALL BOARD. COMPO BOARD
Ketcham, Howard ....3rd and Girard Ave., Phila.

WALLBOARD (Sheetrock)
Pearce Fireproof Co .....1911 N. 2nd St., Phila.
aw, James & Son Co.,
52nd and Woodland Ave., Phila.

WALL COPING
Clausen, Wm. H. .....27th and Diamond Sts., Phila.

WATER HEATERS
Fleck Bros. Co. .....50 N. 5th St., Phila.
Philadelphia Gas Range Co. ....1026 Arch St., Phila.

WATERPROOFING
ti-Hydro Waterproofing Co....24th and Parkway
Concrete Waterproof Paint Co. 829 N. 3rd St., Phila.
Benjamin Foster Company,
20th and Venango Sts., Phila.
Master Builders Co. .....Otis Bldg., Phila.
Truscon Laboratories .....1505 Race St., Phila.

WEATHERSTRIPPING (Metal)
American Metal Weatherstripping Co.,
2115 Diamond St., Phila.
Malia, Thomas .....226 W. Mentor St., Phila.

WINDOW GUARDS AND WIRE PARTITIONS
Potts, Horace T., & Co..Erie Ave. and D St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.

WOOD PANELS
H. C. L. Miller .....1101-19 N. Front St., Phila.

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Entered at the Philadelphia Post Office as Second-Class Matter

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September 1, 1926

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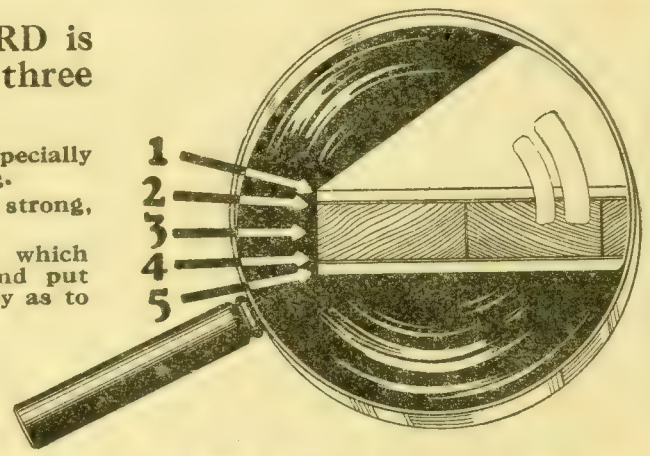
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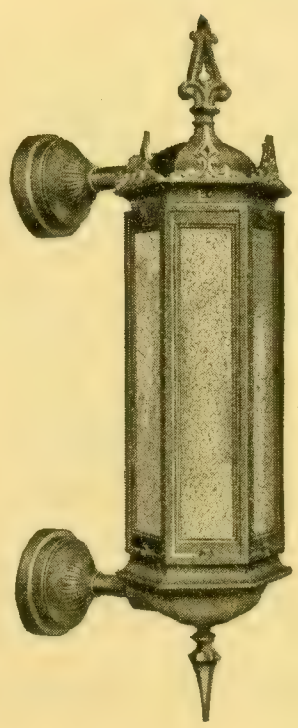
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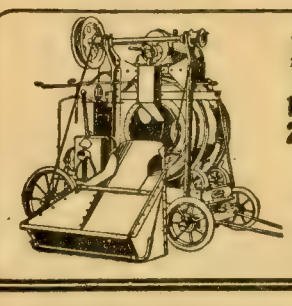
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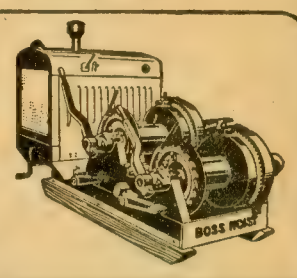
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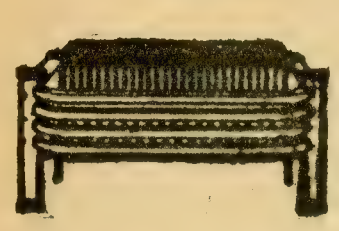
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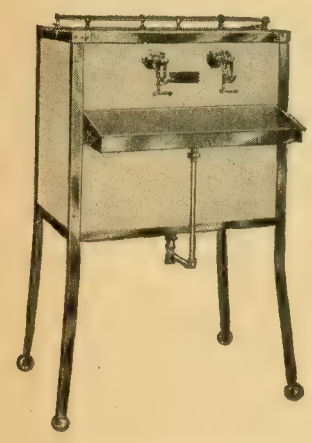


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PHILADELPHIA
September 1, 1926

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Theatre, Southeast Corner Twenty-first and Market streets, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Stanley Company of America, 1916 Race street, Philadelphia. Details undecided. Plans in progress.

Parochial School, 623-25 Christian street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, St. Mary Magdalen Paizzi, Rt. Rev. Monsignor A. Garritano, 710 Montrose street, Philadelphia. Plans in progress. Too early for details.

Store and Apartments (alts. and add.), Frankford, Philadelphia. Architect, C. H. Fries, Drexel Building, Philadelphia. Owner, name withheld. Brick, 3 stories, 24x35 feet, slag roof, hardwood floors, plumbing, hot water heat, electric light, tile work. Plans in progress.

Garage, Stores (3), Southwest Corner Front and Westmoreland streets, Philadelphia. Architects, Watts & Coscia, Liberty Building, Philadelphia. Owner, George H. Grant, care of architect. Brick, steel, slow burning, 2 stories, 60x105 feet, slag roof, cement and pine floors, L. P. steam heat, electric light, rolled steel sash, flush bulks, plate glass, plaster. Plans in progress. Ready for bids in a few days.

Garage, Germantown, Philadelphia. Architects, Watts & Coscia, Liberty Building, Philadelphia. Owner, Lawrence Durant, care of architect. Brick, steel, slow burning, 1 story, 50x160 feet, slag or built-up roof, cement floors ,steam heat, electric light. Plans about completed. Architect ready for sub-bids.

Garage, 1249-51 South Thirty-third street, Philadelphia. Architects, Watts & Coscia, Liberty Building, Philadelphia. Owner, Lawrence Durant, care o farchitect. Brick, structural steel, 2 stories, 40x140 feet, built-up roof, cement floors, ramp, steam heat, electric light, steel sash, mill work. Architects ready for sub-bids.

Residences (16), Stores (2), Fifty-third and Berks streets, Philadelphia. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owners, Steinman & Leese, Fifty-third and Berks streets, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof ,hardwood floors, hot water heat, electric light, tile and marble work. Owners taking sub-bids.

Garage, Northwest Corner Twenty-fifth and Oakford streets, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, name withheld. Brick, 1 story, 60x160 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, flush bulks. Architect taking sub-bids.

Apartment House, 4340-42 Frankford avenue, Philadelphia. Architect, John H. Rackie, 4341 Frankford avenue, Philadelphia. Owners, Reardon Brothers, Inc., 4344 Frankford avenue, Philadelphia. Brick, reinforced concrete, steel, 3 stories and basement, 141x48 feet, slag roof, cement, oak and pine floors, plumbing, waterproofing, architectural terra cotta, steam heat, electric light, metal lath, tile and marble work, rolled steel skylights, bond, ornamental iron work, incinerators, area gratings, metal casement sash, brass pipe, sprinkler system. Architect sub-letting.

Junior High School, Sixteenth and Wharton streets, Philadelphia. Architect, Irwin T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, cut stone, steel ,reinforced concrete, 4 stories and basement, 136x245 feet (plumbing, heating, electric separate bids), slag promenade tile roof, cement and maple floors, hollow tile, safety treads, waterproofing and dampproofing, rolled steel sash and doors, hollow metal doors, bond, floor hardener, iron stairs, ornamental iron work, incinerator, granite, steel partitions. Owners taking bids due September 8th.

Alterations, Tenth street, Westmoreland and Sedgley avenue, Philadelphia. Architect, J. Naschold, 5234 North Second street, Philadelphia. Owners, I. Fischman & Sons, on premises. Brick, cement work, plastering, carpentry and mill work, tile work, skylights, plumbing, heating, electric wiring. Owners and architect taking bids on all lines at the building site between the hours 10 A. M. to 1 P. M. every day until September 4th.

Film Exchange Building, Northeast Corner Twelfth and Vine streets, Philadelphia. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owner, Claude S. Jarvis, 1211 Vine street, Philadelphia. Brick, cut stone, steel, 3 stories and basement, 90x58 feet, slag roof, maple and cement floors, steam

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heat, electric light, metal lath, tile work, rolled steel sash, tin-clad and kalamein doors, ornamental iron work, architectural terra cotta. Architects taking bids due September 7th.

Residence (alts. and add.), 191 Roosevelt Boulevard, Philadelphia. Architects, Magaziner ,Eberhard and Harris, 603 Chestnut street, Philadelphia. Owner, Dr. H. Arnstein, on premises. Steel casement sash, carpentry and mill work, concrete work, plastering, brick work, tile floors, plumbing. Architects taking bids due September 3rd.

Shop Buildings, Fern Rock Terminal Yard, Broad Street Subway, Contract No. 127. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Owners taking bids September 16th, 11 A. M. (Standard Time). Deposit, $50, refunded. Certified check 5 per cent. General repair shop, inspection shop, yard entrance building.

Supplies, Board of Education, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due September 7th, 11 A. M. (Standard Time). Portables and steel files, etc.

Residences (4), 2712-14-18-20 Alresford street, Philadelphia, $3,500 each. Architect, private plans. Owners, Wladyslaw Dirnay, 4728 Stiles street, Philadelphia. Brick, 2 stories, 14 feet 8 inches x 40 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (68), Corlies, Tasker, Dickinson and Thirtieth streets, Philadelphia, $173,000. Architect, private plans. Owners, Berlinger & Brenner, Thirtieth and Dickinson streets, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, pine floors, electric work. Permit issued.

Residence, 5129 Master street, Philadelphia, $3,500. Architect, private plans. Owner, Bernardo Romani, 4720 Merion avenue, Philadelphia. Brick, 2 stories, 17x48 feet, slag roof, pine floors, steam heat, electric light. Permit issued.

Residences (52), Dewey street and Harley avenue, Philadelphia, $210,000. Architect, private plans. Owner, Harry Krajeski, 5855 Fernwood terrace, Philadelphia. Brick, 2 stories, (4) 16x36 feet, (48) 15x26 feet, 9x11 feet, slag roof, pine floors ,hot water heat, electric light. Permit issued.

Garage, 249 Osborne street, Philadelphia, $4,000. Architect, private
R. Pratt, 245 Sumac str
Brick, 1 story, 96x18 feet
floors, hot water heat, el
issued.

Residence (add.), 533 Ar
delphia, $3,000. Architect,
Radnor, Pa. Owner, E. T.
ris street, Philadelphia. Brick, se
add., 14x11 feet. Permit issued.

Residences (31), East side Flanders street, North of Oxford street, Philadelphia. Architect, private plans. Owner, Martin Furman, 1520 North Alder street, Philadelphia. Brick, 2 stories, 15x29 feet, 11x10 feet, slag roof, pine floors, electric light. Permit issued.

Residence, North side Friendship street, West of Frontenac street, $4,000. Architect, private plans. Owner, **Roy H. Lippincott,** Disston and Algard streets, Philadelphia. Brick, 2 stories, 24x42 feet, pine floors, electric lighting. Permit issued.

Office and Residence (alts.), 256 South Twenty-first street, Philadelphia, $2,000. Owner, Dr. Rutherford L. John, on premises. General alterations. Permit issued.

Residences (4) and Garages, Ritka Ave. and Wilde St., Manayunk, Phila. Architect, John E. Sindoni, Norwood and McKean streets, Phila. Owner, N. DiDominico, 1439 S. Broad St., Phila. Brick, 2 stoories, 16x42 feet, concrete block, 1 story, 10x16 feet, hot water heat, electric light, tile work, slag roof, hardwood and cement floors. Owner taking subbids.

Funeral Parlor, Apartments and Garage, location withheld. Architect, J. H. Rackie, 4341 Frankford Ave., Phila. Owner, name withheld. Face brick, 2 stories, 20x68 feet, brick, 2 stories 20x20 feet, slag roof, hardwood and cement floors, hot water heat, thermostatic control, electric light, tile work, plumbing, painting, metal ceilings, millwork, plate glass, ornamental iron work. Plans in progress. Architect will be ready for subbids in one week.

Residences (5), S. W. Cor. Mulberry and Meadow Sts., Phila. Architect, J. H. Rackie, 4341 Frankford Ave., Phila. Owner, Jas. H. Winston, 1931 Herbert St., Phila. Brick, 2 stories, 18x32 feet, slag roof, hardwood floors, iron fence, hot water heat, electric light. Owner will build, and will be ready for subbids in two weeks.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Warehouse, 20 North Third street, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, Harry Uditsky, care of J. Uditsky & Son, on premises. Steel, concrete, cast stone, 5 stories, 41x125 feet, asphalt roof, concrete floors, elevators, steam heat, electric light, rolling steel sash, iron stairs, fire escapes. Contract awarded Nelson-Fedley Const. Co., Corn Exchange Building, Philadelphia.

Bank, 1604 Walnut street, Philadelphia. Architect, private plans. Owner, Grillet Collins, 112 North Twelfth street, Philadelphia. Brick, limestone, steel, 4 stories and basement, 24x80 feet, slag roof, concrete floors, elevators, steam heat, electric light, tile work, hollow metal sash, vault lights. Contract awarded William Steele & Son, 219 North Broad street, Philadelphia.

Garage, Bainbridge and Orianna avenue, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner, J. Bockel ,315 Bainbridge street, Philadelphia. Brick, cast stone, steel, 2 stories, 82x46 feet, stam heat, electric light, rolled steel sash, bond, ornamental iron work, steel curtains,

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teel, carpentry and
asement, 50x20 feet,
and glazing, plastering, plumbing, electric work, heating alterations, concrete and cement work. Contract awarded C. C. Eddleman, 1627 Sansom street, Philadelphia.

Factory (add.), Southwest Corner Allison and Arch streets, Philadelphia, $5,000. Architect, private plans. Owner, Samuel Yellin, on premises. Brick, second story add., 57x30 feet. Contract awarded to Haverstick & Borthwick, 1505 Race street, Philadelphia.

Residence, 513 Christian street, Philadelphia, $4,200. Architect, private plans. Owner, Nick Parrono, 531 Queen street, Philadelphia. Brick, 3 stories, 14x48 feet, 10x16 feet, slag roof, pine floors, electric lighting. Contract awarded to N. Altrillo, 1437 South Eighth street, Philadelphia.

Residence (alts.), 1202 West Lehigh avenue, Philadelphia, $3,500. Architect, private plans. Owner, William J. Baldwin, 1202 West Lehigh avenue, Philadelphia. General alterations. Contract awarde d to Joseph E. Houseworth, 2512 North Twenty-seventh street, Philadelphia.

Residence (alts. and add.), 6012 Master street, Philadelphia, $3,000. Architect, private plans. Owners, Overbrook National Bank, Sixtieth and Master streets, Philadelphia. Brick, 1 story add., 28x16 feet, general alterations. Contract awarded to William J. Fullmer, 1532 North Sixty-first street, Philadelphia.

Residence (alts.), 4731 Haverford avenue, Philadelphia, $2,100. Architect, private plans. Owner, Lena C. Markley, on premises. General alterations. Contract awarded to Henry G. Warner, 4119 Haverford avenue, Philadelphia.

Residence, North side Fitler street, West of Frankford avenue, $5,000. Architect, private plans. Owner, F. A. Gubler, 4931 North Second street, Philadelphia. Stone and frame, 2 stories, 26x28 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to D. A. Pingatore, 4243 Frankford avenue, Philadelphia.

Residence (add.), 6335 Sherwood road, Philadelphia, $4,500. Architect, private plans. Owner, R. J. Miller, on premises. Brick, 3 stories, 18x12 feet. Contract awarded to M. W. Young, 2037 North Sixty-third street, Philadelphia.

Residence, East side Bustleton pike, North of Byberry road, $8,000. Architect, private plans. Owner, Nathan Vansant, Somerton, Pa. Frame and stucco, 3 stories, 34x28 feet, hardwood and pine floors, electric light. Contract awarded to William D. Bubeck ,Somerton, Pa.

Residence and Add. to Warehouse, Fairmount avenue, East of Orkney street, $15,000. Architect, private plans. Owner, Samuel Goldman, Fairmount and Orkney street, Philadelphia. Brick, 3 stories, 20x28 feet, 18x11 feet, hot water heat, electric work, warehouse, 3 stories add., brick, 42x32 feet. Contract awarded to Frank Laiser, 1517 South Sixth street, Philadelphia.

Residence and Store (add.), 2103 Fairmount avenue, Philadelphia, $4,000. Architect, private plans. Owner, Joseph D. Pierno, on premises. Brick, 3 stories add., 23x11 feet. Contract awarded to Anthony Terna, 1612 South Seventeenth street, Philadelphia.

Residence, East side Cresomtn avenue, North of Meadow Lane, $12,000. Architect, private plans. Owners, Cresmont Farms Improvement Co., on premises. Stone, 3 stories, 38 feet 6 inches x 26 feet, slate roof, hardwood and pine floors, steam heat, electric light. Contract awarded to Hugh Scott, 3343 Bouvier street, Philadelphia.

Residence, East side Cresmont avenue, North of Meadows lane, $12,000. Architect, private plans. Owners, Crestmont Farms Improvement Co., on premises. Brick, 3 stories, 40x26 feet, steam heat, electric light, hardwood and pine floors. Contract awarded to Hugh Scott, 3343 Bouvier street, Philadelphia.

Garage, 525-27 South Randolph street, Philadelphia, $5,000. Architect, private plans. Owner, Julius Kramer, 515 South Sixth street, Philadelphia. Brick, 1 story, 30x32 feet 6 inches, slag roof, cement floors, electric work. Contract awarded to D. Wittenberger, 1519 North Thirty-third street, Philadelphia.

Contract No. 28, Delaware River Bridge, $9,250. Owners, Delaware River Bridge Joint Commission, Widener Building, Philadelphia. Contract awarded O'Neill Co., 127 East Mermaid lane, Philadelphia.

Miscellaneous Work, Philadelphia. Contracts awarded. Owners, Department of Public Works, Bureau of Highways, Philadelphia.

Redressed Granite Block Repaving: Arch street, Fifteenth to Twenty-third street, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $64,720.83. Lombard, Sixteenth, Sydenham, Eighteenth and Nineteenth, United Paving Co., Real Estate Trust Building, $7,761.24. Rising Sun avenue (track area), Fifth to Sixth, United Paving Co., Real Estate Trust Building, $4,303.50. Walnut, Thirty-second, Thirty-third and Thirty-fourth, United Paving Co., Real Estate Trust Building, $19,190.42. Watts, Poplar to Girard, C. G. Centone, Bailey Building, Philadelphia, $4,574.58. Ninth, South to Pine street, United Paving Co., Real Estate Trust Building, $8,229.01. Eleventh, Columbia to Susquehanna, Acchione Cont. Co., 804 South Twelfth street, Philadelphia, $32,710.85. Fifteenth (shoulders), Race to Vine street, Mazzola & Marano, 739 South Seventh street, Philadelphia, $7,069.56. Seventeenth, Pine, South, Filbert to Chestnut street, United Paving Co., Real Estate Trust Building, $12,440.89. Fifty-second street, Spruce to Haverford, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $34,664.81.

Grading: Gillingham, Sellers, Richmond and Bath, Duffin Brothers, 1623 East Lycoming street, Philadelphia, $1,624.70. Horrocks, Anchor, Roosevelt, Cheltenham, Large, Thomas Connor, 3621 North Fifth street, Philadelphia, $2,787.46.

Asphalt Paving: Ellen, Carpenter to Sedgwick, Eastern Asphalt Paving Co., Pennsylvania Building, $7,601.57. Oxford, Frankford to Foulkrod, Union Paving Co., Thirtieth and Locust streets, $6,196.05. Sedgley, Kensington to Frankford, Union Paving Co., Thirtieth and Locust streets, $24,754.10. Wakeling, Bingham to Colgate, Union Paving Co., Thirtieth and Locust streets, $11,382.85. Woodbine, Fifty-sixth to Fifty-eighth, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $26,216.18.

Asphalt Repaving: Allegheny, Frankford to Kensington, Union Paving Co., Thirtieth and Locust streets, $50,746.50. Wolf, Hicks to Eighteenth, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $19,432.30.

Residence, 4258 Manayunk Ave., Phila., $11,500. Architect, private plans. Owner, Michael Crinny, Sharp and Salagnac Sts., Phila. Brick, 3 stories, 20x30 feet; 17x30 feet, electric lighting, hardwood and pine floors. Contract awarded to Hagerty & Sullivan 34 S. 17th St., Phila.

Store Building (add. and alts.), 1310 Walnut St., Phila., $10,000. Architect, private plans. Owners, Stecker's, Inc., 1220 Walnut St., Phila. Brick addition, general alterations. Contract awarded to Paul Brosz, 2511 W. Huntingdon St., Phila.

Storage Building (alts.), S. E. Cor. Lydia and Sophia Sts., $9,000. Architect, private plans. Owner, Simon Weil, 1141 N. 2nd St., Phila. General alterations. Contract awarded to Chas. Bannett, 1633 S. 59th St., Phila.

Residence, 2316 DeLancey St.. Phila., $5,000. Architect, private plans. Owner, M. Fredrick, 208 S. 4th St., Phila. Brick, 4 stories, 16x39 feet, slag roof, pine floors, electric work. Contract awarded to John Duncan, 920 Walnut St., Phila.

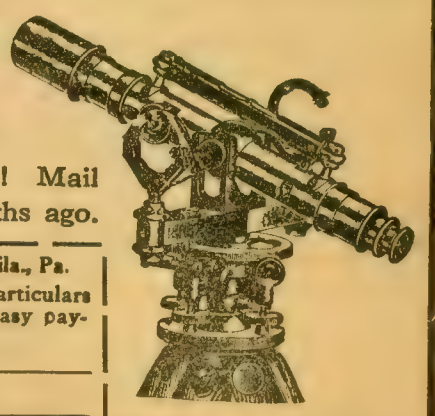
Store (alts.), N. E. Cor. 35th and Queen Lane, Phila., $3,000. Architect, private plans. Owner, Wm. Hall, 3475 Queen Lane, Phila. Brick, general alterations. Contract awarded to C. N. Swartley & Son, 6835 Ridge Ave., Phila.

Store (alts.), S. E. Cor. 11th and Chestnut Sts., Phila., $2,500. Architect, private plans. Owner, Walter Becker, S. E. Cor. 11th and Chestnut Sts., Phila. General alterations. Contract awarded to Paul Brosz, 2511 W. Hunting Park Ave.

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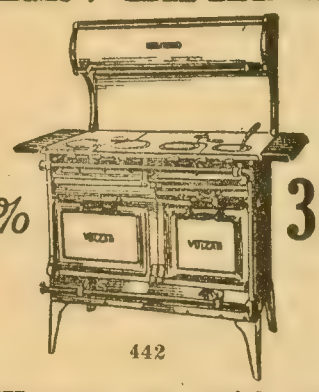
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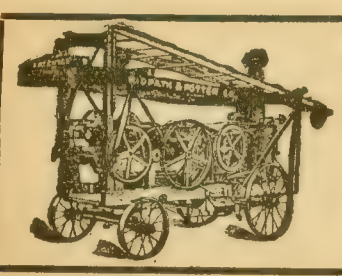
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Pennsylvania Construction News

Grade School, South Springfield, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Board of Education, Springfield Township, C. G. Cope, Schaff Building, Philadelphia. Stone, 2 stories. Sketches being drawn. Too early for details.

High School, Leany avenue and Valley road, Springfield, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Board of Education, Springfield Township, C. G. Cope, Schaff Building. Stone, 2 stories. Sketches being drawn. Too early for details.

Foundations and Superstructure for Store Building, Tamaqua, Pa. Architect, Benjamin Rush Stevens, 1727 Arch street, Philadelphia. Owner, Edward J. Jennings, Tamaqua, Pa. Reinforced concrete, brick, steel, 3 stories, 52x150 feet. Revised plans in progress. Architect will be ready for bids in one week.

Club House, Shenandoah, Pa. Architect, Leo Navitsky, 5232 Chester avenue, Philadelphia. Owners, Lithuanian Social Club, care of Shenandoah Trust Co., Shenandoah, Pa. Brick, 3 stories, 20x94 feet, pine floors, electric light. Plans in progress.

Theatre, Pittsburgh, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Stanley Company of America, 1916 Race street, Philadelphia. Brick, limestone, steel, 20 stories and basement, 100x75 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile and marble work, bond, ornamental iron work, elevators. Plans in progress.

Junior High School, Red Lion, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Red Lion School Board, Red Lion, Pa. Semi-fireproof, 1 story and basement, 173x115 feet (plumbing, heating and electrical work separate), brick, steel, reinforced concrete, slag and composition roof, cement and composition floors, roof ventilators, cut stone, steel sash, metal lath, steel window guards. Plans in progress.

Country Club, York, Pa. Architects, J. A. Dempwolf, R. A. Stair and Edward Leber, York, Pa. Owners, York Country Club, C. E. Smith, president, York, Pa. Stone, stucco, 2½ stories, 76x98 feet. Plans in progress.

School (add.), Shippensburg, Pa. Architect, J. A. Dempwolf, Cassatt Building, York, Pa. Owners, Shippensburg School Board, W. A. Nickles, 317 West King street, Shippensburg, Pa. Brick, 2 stories, 32x50 feet. Revised plans in progress.

Factory and O
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623 East Pine
story, 40x115 f.
electric light. C

Store and Ware
tect, R. M. Herr,
Wilkes-Barre, Pa. O
Son, 601 Market street, Kingston, Pa. Brick, 2 stories, 80x125 feet, slag roof. Plans in progress.

Garage and Show Room (add.), Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Buckwalter-Sweigart Co., Lemon and Mary streets, Lancaster, Pa. Concrete, brick, 2 stories, 20x60 feet, composition roof, linoleum floors, heating extension, electric light. Plans in progress.

Residence and Garage, Merion, Pa. Architect, Alexander M. Adams, 1012 Walnut street, Philadelphia. Owner, Norman F. Hunnewell, Merion, Pa. Stone, 2½ stories and basement, 25x60 feet (plumbing, electric and heating reserved), slate roof, oak and pine floors, metal lath, tile work. Ready for bids in a few days.

Apartment House, Morris road and Montgomery pike, Bryn Mawr, Pa. Architect, private plans. Owners, Salasin and Rreed, 33 East Spring avenue, Ardmore, Pa. Brick, steel, 3 stories, 21 apartments, vapor heat, electric light, tile and marble work, rolled steel sash, fire doors, slag roof, hardwood and composition floors, kitchen and laundry equipment, incinerator. Owners will build and will take sub-bids September 3rd.

Club House (alts. and add.), Reading, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, Reading Sick & Beneficial Association, care of architect. Brick, 1 story, 11x56 feet, composition roof, general alterations, heating extension, electric light. Architect ready for bids.

Service Station, Reading, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owners, Reading Auto Co., H. Koller, 126 North Fifth street, Reading. Brick, steel, 1 and 2 stories, 60x190 feet, slag roof, concrete floors, oil burner, electric light, tile work, steel sash. Owners taking sub-bids.

Bungalow, Lansdale, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, Michael Gaina, Lansdale, Pa. Brick, 2 stories, 20x38 feet, asbestos shingle roof, hardwood floors, wood and metal lath, electric light (heating reserved). Owner taking bids.

High School, Ephrata, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, School District, Borough of Ephrata,

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J. M. Baum, secretary, Ephrata. Brick, steel, 1 story and basement, 170x150 feet, built-up roof, maple floors, hollow tile, safety treads, roof ventilators, waterproofing and damp-proofing, cast stone, iron stairs, bond, fire doors, steel sash and skylights, tile work, metal lath (heating, plumbing, electric separate). Owners taking bids.

Residence, West Chester, Pa. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, David H. McFarland, care of architect. Stone, 2½ stories (plumbing, heating, electric reserved), slate roof, hardwood floors, tile work. Plans about completed. Architect will be ready for bids in ten days.

Miscellaneous Work, Pottsville, Pa. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, Treasury Department, Office of the Supervising Architect, Washington, D. C. Extension to driveway and underpinning of retaining wall. Owners taking bids due September 14th at 3 P. M.

Church, Brookline, Pa. Architect, George C. Baum, 1511 Arch street, Philadelphia. Owners, Temple Lutheran Church, Brookline, Pa. Architect taking bids due September 4th before noon.

Church, School and Community Building, State road and Sellers avenue, Bywood, Pa. Architect, J. B. Thompson, 34 South Seventeenth street, Philadelphia. Owners, Mary C. Sellers Methodist Episcopal Church, Bywood, Delaware County, Pa. General alterations and addition to church, stone, 20x30 feet, slate roof, new building, stone, structural steel, concrete, limestone, granite, 3 stories, 80x56 feet, built-up roof, sheet metal work, composition and quarry tile roof, slate shower, enclosed metal toilet partitions, canvas curtains, wall treatment, electric work, plumbing, steam heat, steel casements. Plans completed.

Concrete Sidewalks, Chester pike, Borough line to Borough line, Eddystone, Pa. Architects, Damon & Foster, 6932 Market street, Upper Darby, Pa. Owners, Borough of Eddystone, W. E. Eckels, Fire Hall, Eddystone. Owners taking bids due September 8th, 8 P. M. (Daylight Saving Time).

Miscellaneous Contracts, Pennsylvania Railroad. Owners, Pennsylvania Railroad, Broad Street Station. Contract No. 32 bids due September 8th at noon (Standard Time).

Reinforced Concrete Paving, Marcus Hook, Pa. Engineer, C. F. Baker, Crozer Building, Chester, Pa. Owners, Borough of Marcus Hook, R. C. Rennie, Marcus Hook, Pa. Owners taking bids due September 7th, 8 P. M. Certified check, $150.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Low bidders on road work received August 24th.

McKean County, R-211, A-3907, Eldred Township and Borough, 4,610 feet. One course reinforced concrete and grading and drainage. George Metzger, Jr., Emporium, Pa., $91,-208.86.

Northampton County, A-4203, Bushkill Township, 6,502 feet. One course reinforced concrete. Juniata Co., Empire Building, Philadelphia, $48,098.07.

Venango County, O-4214, Oakland Township, 13,117 feet. One course reinforced concrete. Meredith & McVaugh, Sharon, Pa., $94,803.16.

Westmoreland County, R-302, A-4130, Ligonier Township, 6,049 feet. One course reinforced concrete. Adam Eidermiller, Greensburg, Pa., $43,161.47.

Cumberlan dCounty, R-250, Lemoyne Borough, 295 feet. One course reinforced concrete. Paul R. Hostetter, Inc., York, Pa., $7,415.07.

Luzerne County, R-169-2, Bear Creek Township, 18,987 feet. One course reinforced concrete. Paul R. Hostetter, York, Pa., $117,-584.74.

Delaware County, A-3969, Springfield Township, 8,332 feet. One course reinforced concrete, Juniata Co., Empire Building, Philadelphia, $76,371.17.

Bucks and Montgomery Counties, A-4037, 3771, 4067, Telford, West Telford, Souderton Boroughs, Hilltown and Franconia Townships, 12,041 feet. One course reinforced concrete. Cox & John, Malvern, Pa., $77,073.70.

Butler County, A-4046, Clinton Township, 3,914 feet. One course reinforced concrete. Jones Const. Co., Woodlawn, Pa., $35,187.53.

Clarion County, R-218, Section 1, Shippensville Borough, Elk Township, 9,172 feet. One course reinforced concrete. Joseph McCarty Const. Co., Kaukauna, Wis., $75,825.02.

Westmoreland County, R-302, A-4129, St. Clair Township, 7,891 feet. One course reinforced concrete. A. R. Cooper, Hookstown, Pa., $63,001.84.

Butler County, R-3876, Parker Township, 4,440 feet. Bituminous penetration surface course on broken stone base course. Jones Const. Co., Woodlawn, Pa., $22,995.61.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, W. H. Connell, Engineering Executive, Harrisburg, Pa. Owners taking bids due September 15th at 10 A. M. Plans, $2.50 per set.

Allegheny County, R-181, A-1058-A, Forward Township, 4,634 feet. One course reinforced concrete. Certified check, $1,500.

Blair County, A-3583, Allegheny Township, 2,664 feet. One course reinforced cement concrete. Certified check, $1,500.

Bradford County, R-13, A-4207, Terry Township, 7,427 feet. Bituminous surface treated macadam. Certified check, $2,000.

Cambria County, R-276-R, Cresson Townsship, 8,890 feet. One course reinforced cement concrete. Certified check, $2,000.

Clarion County, R-66, A-4367, Clarion and Limestone Townships, 10,630 feet. One course reinforced concrete. Certified check, $2,000.

Erie County, R-495, A-4377, Lawrence Park Township, 4,505 feet. Bituminous surface course and concrete base course. Certified check, $1,500.

Franklin County, R-340, A-3840, Letterkenny Township, 6,526 feet. One course reinforced cement concrete. Certified check, $2,000.

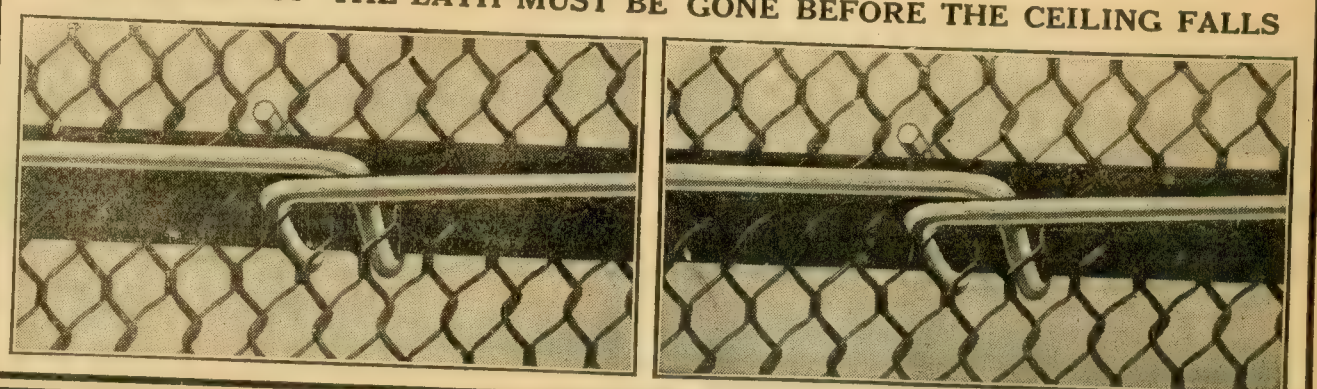
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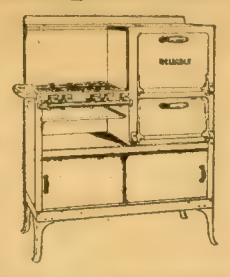
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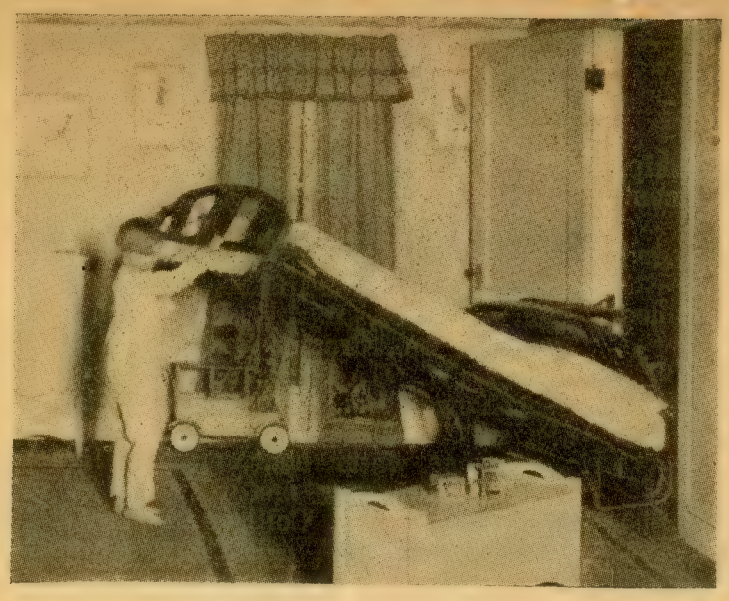
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Indiana County, A-796, Black Lick Township, 27,700 feet. One course reinforced cement concrete. Certified check, $3,500.

Lebanon County, R-140-141, A-4309, Bethel Township, 22,545 feet. One course reinforced cement concrete. Certified check, $3,000.

Lehigh County, R-158, "Spur" Upper Milford and Lower Macungie Townships, Macungie Borough, 8,440 feet. One course reinforced cement concrete. Certifie dcheck, $2,000.

Luzerne County, R-5, DuPont Borough, 5,400 feet. One course reinforced cement concrete. Certified check, $1,500.

McKean County, R-211, Foster Township, 18,139 feet. One course reinforced cement concrete. Certified check, $2,500.

McKean County, R-277, A-3962, Keating and Norwich Townships, 39,094 feet. Bituminous surface treated macadam. Certified check, $4,000.

Schuylkill County, R-417, A-4131, North Manheim and Wayne Townships, Cressona Borough, 15,112 feet. One course reinforced concrete. Certified check, $2,500.

Washington County, R-247, Sec. 10, A-4094-4095, Carroll and Fallowefild Townships, North Charleroi Borough, 14,225 feet. One course reinforced cement concrete. Certified check, $2,500.

Westmoreland County, R-120, Sec. 1a-1b-2a, Hempfield and North Huntingdon Townships, 10,283 feet. One course reinforced concrete. Certified check, $2,000.

Warren County, R-94, Sec. 2, Warren Borough, 1,537 feet. One course reinforced concrete. Certified check, $1,000.

Residences (20 pairs) Garages, Bywood, Pa. Architect, private plans. Owner, John J. Woolley, Harrison Bldg., Phila. Frame, stucco, 2 stories, 21x48 feet each 10x18 feet, hot water heat, electric light, tile roof, hardwood and cement floors. Owner taking sub-bids.

Steel Lockers (650), Haverford, Pa. Owner, School District of Haverford Twp., E. S. Moore, Upper Darby, Pa. Steel lockers 12 fee square. Owner taking bids due Sept. 13th.

Sewer, Oakmont, Pa. Owner, Twp. of Oakmont, H. A. Fritschman, Oakmont, Pa. Certified check $300. Deposit $5.00, refunded. Owner taking bids due Sept. 13th, 5.30 P. M. (D. L. S.)

Central Heating Plant, Coatesville, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Phila. Owner, Coatesville Hospital, Catesville, Pa. Brick, steel, 1 story. Plans in progress.

Toilet Buildings (2), Rutherford, Pa. Architect, Samuel T. Wagner, Reading Terminal Bldg., Phila. Owner, Phila. & Reading R. R., 12th and Market streets, Philad. Brick, steel, 1 story, 14x30 feet, slag roof, cement floors, stea mheat, electric light, plumbing, rolled steel sash, ornamental iron work, steel partitions. Owner taking bids due Sept. 2nd.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

Pennsylvania Contracts Awarded

Wagon Shed and Stable, Chester pike and Quarry street, Darby, Pa. Architects, The Stuckert Co., Crozier Building, Philadelphia. Owner, W. H. Snell, on premises. Lessee, Scott-Powell Co., on premises. Brick, steel, 2 stories, 60x143 feet, composition roof, cement floors, hot water heat, electric light, rolled steel sash, hollow metal skylights. Contract awarded Fred G. Collison, Folcroft, Pa.

Alterations and Additions, Abington, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owners, Abington Hospital, Abington, Pa. Bond, concrete, cement work, cut stone, metal lath, plastering, carpentry work, pine floors, mill work, hardware, painting and glazing, plumbing, electric work. Contract awarded E. Allen Reeves, Abington, Pa.

Alterations to Administration Building and Laundry Building, Abington, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owners, Abington Memorial Hospital, Abington, Pa. Bond, concrete, cement, brick work, masonry, metal lath, plastering, plumbing, Duraflex floors, carpentry and mill work, shingle roof. Contract awarded E. Allen Reeves, Abington, Pa.

Chapel Renovation, Norristown, Pa. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, House of Good Shepherd, care of Rt. Rev. Mother, Norristown, Pa. Hot water heat, electric light, rubber tile floors, leaded glass, oak pews, wrought iron grills, marble altar rails, wainscoting and floors. Contract awarded Frank J. Schuler, Norristown, Pa.

Residence (alts. and add.), Devon, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Edward Browning, Devon, Pa. Stone, frame, 2½ stories, 24x24 feet (plumbing, heating, electric reserved), shingle roof, oak, pine floors, metal lath, ornamental iron work. Contract awarded Hart Parliman, Devon, Pa.

Residence and Garage, Lansdowne Court, Lansdowne, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphie. Owner, J. C. Curley, Pleza Hall, Forty-third and Chestnut streets, Philadelphia, Stone, frame, 2 stories, 22x56 feet, shiogle roof, hardwood fleors, vapor heat, oil burning, electric light, hardwood floors, tile and marble work, incinerator, refrigeration. Contract awarded F. H. Wilson, Oakmont, Pa.

State Normal School (alts. and add.), Laundry and Stair Tower, Lock Haven, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, State Normal School, Dr. Armstrong, Lock Haven, Pa. Fireproof, brick, 1 story and basement, 60x40 feet, slate roof, composition and concrete floors, hollow tile. Contract awarded to Tidlow Brothers, Lock Haven, Pa.

Store and (12) Apartments, Second street, Harrisburg, Pa. Arcaitect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Wolfe Shop, 207 North Second street, Harrisburg, Pa. Architectural terra cotta, brick, steel, 3 stories, 35x75 feet, slag roof, hardwood floors, hollow tile, city heat, electric light, metal lath, plate glass, bronze. Contract awarded to R. S. Shoemaker, 2108 Walnut street, Harrisburg.

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Garage and Living Quarters, Haverford, Pa. Owners, Mrs. Elsie C. Stewart, Haverford, Pa. Stone, 2 stories, 125x73 feet, tile roof, reinforced concrete and pine floors, vapor heat, electric light, plumbing. Contract awarded William Powell Dilworth, Bryn Mawr, Pa., who is taking sub-bids.

Residence, Penn Side, Reading, Pa. Architect, H. A. Maurer, 234 North Fifth street, Reading, Pa. Owner, Fred Lang, care of architect. Cinder block, stucco, 2½ stories, 28x32 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to W. E. Spatz, American Casualty Building, Reading, Pa.

Church (alts.), Hershey, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Holy Trinity Lutheran Church, Rev. P. Kinports, Hershey ,Pa. Alterations to front of church. Contract awarded to J. H. Greiner Co., Lebanon, Pa.

State Street Memorial Bridge, Harrisburg, Pa. Architect, A. W. Brunner, Associates, 101 Park avenue, New York. Owners, State of Pennsylvania, Department of Property and Supplies, Harrisburg, Pa. Granite. First unit. Contract awarded to C. W. Strayer, Twenty-fifth and Market streets, Harrisburg, $575,000.

Hotel, Pottsville, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Engineers, Day & Zimmerman, 1600 Walnut street, Philadelphia. Owners, Pottsville Community Hotel, Inc., Pottsville, Pa. Brick, cut stone, steel, 10 stories and basement, 100x73 feet, wing 63x34 feet, built-up roof, cement floors, elevators, ornamental iron work, mail chute, bond, fire doors, metal lath, tile work, steam heat, electric light. Contract awarded to Day & Zimmerman, 1600 Walnut street, Philadelphia.

Residences (alts. and add.), 413 Oak Lane avenue, Wayne, Pa. Architect, John B. Thompson, 34 South Seventeenth street, Philadelphia. Owner, John Foley, on premises. Brick, 2 stories and basement, 12x16 feet, 2 wings (plumbing, heating, electric reserved), slag roof, oak and pine floors, carpentry and mill work, plastering, mill work, paint, sheet metal work, glazing. Contract awarded A. V. Gilchrist, Drexel Building, Philadelphia.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Delaware County, R-130, S-A, A-3692, Prospect Park and Morton Borougs, Ridley and Springfield Townships. One course reinforced concrete, $191,479.19. Contract awarded to Union Paving Co., 123 South Twenty-first street, Philadelphia.

York County, R-441, A-3540, Glen Rock Borough, Shrewsbury and Corodus Townships, 30,534 feet. One course reinforced concrete. $189,294.17. Contract awarded to Continental Cont. Co., Baltimore, Md.

Westmoreland County, R-188, A-3913, 3914, Allegheny Township, 17,626 feet. One course reinforced concrete. $182,489.96. Contract awarded to State Const. Co., New Kensington, Pa.

Laundry and Power House, Aubrey Ave., Ardmore, Pa. Architect, private plans. Owner, St. Mary's Laundry, Ardmore, Pa. Stone, brick, concrete block, 1 story and basement, 146x100 feet, slag roof, composition and cement floors, electric light, metal lath, tile work, terrazzo work, rolled steel sash and skylights, hollow metal doors, ornamental iron work, bluestone, plumbing, roof vents, dampproofing, duraflex floors. Contract awarded C. C. Eddleman, 1627 Sansom street, Philadelphia.

New Jersey Construction News

Building, Pitman, N. J. Architect, Andrew C. Borzner, 721 Walnut street, Philadelphia. Owners, Pitman Gardens, care of Charles Rose, care of architect. Frame ,stucco, 1 and 2 stories. Work contemplated. Sketches in progress.

School, Eighth and Jackson streets, Camden, N. J. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Board of Education, Camden, N. J. Plans completed. Owners will be ready for bids in a few days.

Apartment House, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, M. Mirkin, 729 Greenwood avenue, Trenton, N. J. Brick, steel, 3 stories, 20x200 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, tile and marble, hollow tile. Architect will be ready for bids next week.

Store, Office and Garage (alts. and add.), 44-46 West State street, Trenton. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Max Litt, 150 South Broad street, Trenton, N. J. Granite, limestone, brick, steel, 3 stories, 35x150 feet, slag roof, concrete and hardwood floors, hollow tile, roof ventilators, iron stairs, fire doors, steel sash and skylights, marble and terrazzo, metal lath, vapor heat, electric light. Architect taking bids.

Factory, Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Schammell China Co., Trenton, N. J. Brick, steel, 2 stories, 145x47 feet, concrete and slag roof, concrete floors, tile work, steel sash, fire doors, iron stairs (heating, plumbing and electric separate). Architects taking bids due September 3rd.

Store and Apartment (alts.), Chester and Clinton streets, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Russell H. LaMont, Arcade Building, Trenton, N. J. General alterations, tile work, plate glass, cut stone, brick, steel. Architect taking bids due September 30th.

Lockhart Dormitory, Princeton, N. J. Architects, Day & Klauder, Franklin Bank Building, Philadelphia. Owners, Princeton University, Princeton, N. J. Stone, brick, steel, concrete, 3 stories. Plans completed. Architects will take bids October 15th.

James Madison Hotel, Virginia avenue and Boardwalk, Atlantic City, N. J. Architect, William Macy Stanton, Land Title Building, Philadelphia. Owners, Virginia Hotel Corporation, Atlantic City, N. J. Brick, reinforced concrete, steel, 15 stories, basement and pent house, 100x150 feet, slag roof, composition

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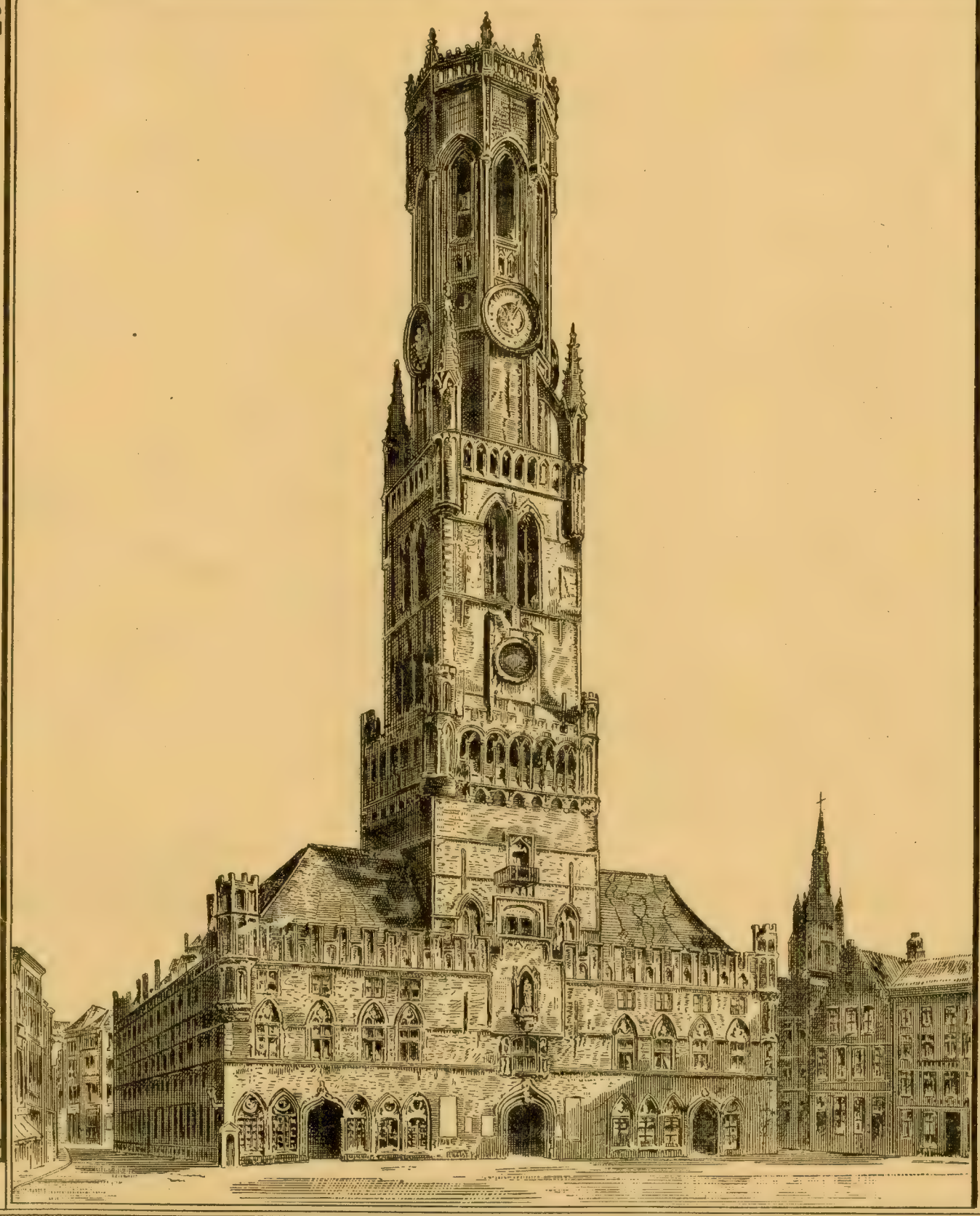
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School, Gloucester, N. J. Architects, Edwards — Greene, Camden, N. J. Owner, Board of Education, Gloucester, N. J., Fireproof, 3 stories and basement, 135x135 feet (heating, plumbing, electric separate), maple floors, hollow tile ,safety treads, roof ventilators, metal weather strip, waterproofing and dampproofing, metal lath, tile and marble work, rolled steel sash and skylights, fire doors, bond, ornamental iron work. Owner taking new bids due September 8th.

Residence, Third avenue, Haddon Heights, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, J. Moran, Haddon Heights, N. J. Stucco, 2½ stories, 30x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architects taking bids due September 2nd.

Church, Highland Park, New Brunswick, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, All Saints' Church, New Brunswick, N. J. Brick, hollow tile, 1 story and basement, 88x38 feet, slate roof, maple floors, cut stone, leaded glass, oil burner, electric light. Architects taking bids due September 8th.

Spring Side School (add.), Burlington, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N .J. Owners, Board of Education of Burlington Township, care of architect. Brick, steel, 2 stories, 45x60 feet, slag roof, concrete floors (heating, plumbing and electric separate). Architect taking bids.

Princeton Hospital and Power House, Princeton, N. J. Architect, Shirley W. Morgan, 129 East Fifty-sixth street, New York City. Owners, Princeton Hospital, Princeton, N. J. Brick, carpentry, 3 stories (heating, plumbing, electric reserved), mill work, slag and copper roof, concrete floors, tile, marble work, linoleum, elevator, dumb waiter, concrete work, painting and glazing, hardware, iron and steel work. Architect taking bids due September 9th.

School, Berlin, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Berlin School Board, W. N. Haynes, secretary, Berlin, N. J. Low bidders: Emil Weiler, Egg Harbor, N. J., $27,937. Plumbing, John J. Donahue, Merchantville, N. J., $2,390. Heating, Harry Knecht, Collingswood, N. J., $4,660. Electric, Scutt Electric Co., 218 Cooper street, Camden ,N. J., $488.

School, West Berlin, N. J. Architect, Arnold H. Moses, Temple Building, Camden, N. J. Owners, Berlin School Board, W. N. Haynes, secretary, Berlin, N. J. Low bidders: Watson & Schleinkofer, West Berlin, N. J., $26,900. Plumbing, John J. Donahue, Merchantville, N. J., $2,390.- Heating, Harry Knecht, Collingswood, N. J., $4,666. Electric, Scutt Electric Co., 218 Cooper street, Camden, N. J., $438.

Psychopathic Building, Trenton, N. J. Architects, Department of Institutions and Agencies, Trenton, N. J. Owners, New Jersey State Hospital for Insane, Trenton, N. J. Lowest bidder: C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., $113,420.

Curbing and Gutters, Clementon, Gibbsboro road, N. J. Engineer, J. J. Albertson, Camden, N. J. Owners, Board of Chosen Freeholders, J. M. Matlock, City Hall, Camden, N. J. 1,600 lineal feet curb, reinforced concrete gutter. Owners eaking bids due September 7th, 11 A. M.

Roads and Walks, New Jersey School for Dear, near Trenton, N. J. Architect, Charles N. Lowrie, landscape architect, 101 Park avenue, New York. Owners, State of New Jersey, State House, Trenton, N. J. Construction of roads and walks on the grounds of the New Jersey School for the Deaf, grading, seeding, drainage. Certified check, 5 per cent. required. Owners taking bids due September 8th at 11 A. M. (Daylight Saving Time). Plans may be obtained from architect.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Grading Route 7, Sections 6 and 7, Freehold to Hightstown, Monmouth, Mercer and Middlesex Counties. Excavation and borrow. Owners taking bids due September 13th at 11 A. M. (Standard Time). Deposit of $10. Certified check 10 per cent. of bid.

Residences (7), Garages (17), 3615-27 Freemont avenue, Camden, N. J. $30,000. Owners, John A. Hendrickson & Son, 3514 Federal street, Camden. Brick, 2 stories, 18x32 feet, slag roof, hot water heat, electric light. Permit issued.

Residences (6 pairs (Twin) Stores (2), near Merchantville, N. J. Architect, John E. Sindoni, Norwood and McKean streets, Phila. Owner, name withheld. Frame, stucco, 2½ stories. Brick, 2 stories, hot water heat, electric light, tile work, rubberoid shingle roof, hardwood floors, cement block garages, 1 story, 10x18 feet. Plans in progress.

Residence, 3171 Pleasant Ave., Camden, $4,100. Architect, private plans. Owner, E. Christopherson, 603 N. 32nd St., Camden, N. J. Frame, 1½ stories, 25x35 feet, rubberoid roof, pine floors, hot air heat, electric light. Permit issued.

New Jersey Contracts Awarded

Hotel, Kentucky avenue, Atlantic City, N. J. Architects, The Victor Gondos Co., 800 North Tenth street, Reading, Pa. Owners, Jefferson Hotel, care of architects. Brick, concrete, cut stone, steel, 7 stories and basement, 180x50 feet, slag roof, oak, pine and cement floors, elevators, safety treads, iron work, dampproofing, hollow metal doors, iron stairs, rolled steel sash, tile, marble and terrazzo, metal lath, demolition, caulking, rubber tile floors, linoleum floors, composition floors, dumb waiters, metal partitions. Contract awarded to Victor Gondos Co., 800 North Tenth street, Reading.

Completion of Gymnasium and Auditorium, High School, North Wildwood, N. J. Architects, H. Rex Stackhouse and W. W. Donohue, 266 South Fifteenth street, Philadelphia. Owners, Board of Education, D. C. Young, North Wildwood, N. J. Contract awarded Hopple & Miller, Heed Building, Philadelphia, $45,139. Plumbing, Harry Greisher, Wildwood, N. J., $485. Heating, R. H. Johnson, Ocean City, N. J., $10,708. Electric, Merit





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Dye House (add. to present building), Freehold, N. J. Architect, private plans. Owners, A. & M. Karagheusian, Frehold, N. J. Brick, steel, 3 stories and 1 story, size undecided, steam heat, electric light, slag roof, cement floors, rolled steel sash, ornamental iron work. Plans in progress. Contract awarded William Steele & Son, 219 North Broad street, Philadelphia.

Church (basement alts.), Camden, N. J. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Our Lady of Mt. Carmel Roman Catholic Church, Rev. D. C. Shea, on premises. Lowering floors, concrete work, carpentry and mill work, painting, glazing, plastering. Contract awarded Knox Landers, 1132 Vine street, Philadelphia.

Residences (2), Home avenue, Trenton, N. J., $11,500. Owner, John Yagerchick, Home avenue, Trenton, N. J. Brick, 2½ stories, 14x45 feet, slate roof, yellow pine floors, hot water heat, electric light. Contract awarded to Ryba & Curry, Trenton, N. J.

Residence, Princeton street, Trenton, N. J., $8,200. Architect, private plans. Owner, Giovanni Immordino, 78 Phillips street, Trenton, N. J. Frame, 2½ stories, 24x41 feet, shingle roof, pine floors, hot water heat, electric light. Contract awarded to Matt Dinolo, 1049 Brunswick street, Trenton, N. J.

Store and Bakery, Princeton avenue, Trenton, N. J., $9,200. Architect, private plans. Owner, Giovanni Immordino, 78 Phillips avenue, Trenton, N. J. Brick, 1 story, 20x122 feet, slag roof, concrete and pine floors, electric light, metal doors. Contract awarded to Matt Dinolo, 1049 Brunswick avenue, Trenton, N. J.

Building No. 3 (add.), Camden, N. J. Owners, American Brown Boveri Elec. Corp., Camden, N. J. Brick, 1 story add., 180x60 feet, asbestos asphalt roof, cement floors, metal lath, rolled steel sash. Contract awarded to N. W. Bryan, 10 South Eighteenth street, Philadelphia.

Road Work, New Jersey. Owners, State Highway Commission, Broad Street Bank Building, Trenton, N. J. Bridges (2), Route 8, Sec. 8, Sussex to Hamburg, Sussex County. Contract awarded to Dean C. Jenkins, Dover, N. J., $9,985.95.

Route 8, Sec. 7, Stockholm-Beaver Lake, Morris, Passaic and Sussex Counties, excavation, borrow, reinforced concrete pavement. Contract awarded to Winston & Co., Midvale, N. J., $399,297.72.

Five Bridges, Route 7, Sec. 6, between Freehold and Hightstown, Monmouth County. Contract awarded to Hill Const. Co., Mt. Holly, N. J., $31,509.10.

Miscellaneous Construction News

Residence, Winston-Salem, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, W. N. Nissen, Winston-Salem, N. C. Plans in progress. Too early for details.

Chapel, Roaring Gap, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, name withheld. Stone, seating capacity 360, slate roof. Plans in progress.

Residence, Winston-Salem, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, R. G. Shore, care of architect. Frame, 2½ stories, slate roof, hardwood floors. Plans about started. Too early for details.

Store Building, 21 West Thirty-eighth street, New York City. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owners, Lane Bryant Co., on premises. General interior alterations. Architect taking bids due September 2nd.

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Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., August 24 ,1926. Sealed Proposals will be opened in this office at 3 P. M., September 14, 1926, for construction and extension to the driveway and underpinning of retaining wall at the United States Post Office, Pottsville, Pa. Drawings and specifications may be obtained from the Custodian or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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Whitewashing a common brick house and letting nature take its course produces an aged appearance with remarkable celerity

Whitewashing brick walls to accelerate their taking on the appearance of age is coming more and more into practice. It isn't a vogue that has developed in any one particular section; it seems to be nation-wide and growing. Perhaps, if anywhere, it predominates in the North, and it may have had its inspiration from the effects attained in the old Spanish architecture of the South and Southwest.

It isn't by any means a new resort. Throughout the Southern European country, along the Mediterranean, it has been a practice for ages. One encounters this effect constantly in the old Italian cities where the brick walls have been covered in many instances not only with whitewash, but first with a heavy coating of cement. In Spain it is a universal custom to use this cement coating.

In America the practice of coating brick walls with cement has nowhere been developed to a greater degree than in the old section of New Orleans. This was under Spanish dominion more than a century ago, but the walls still stand. And if merely an appearance of age is desired one will have to go far to find better

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examples. Not all of these have been whitewashed. Some of them never have been. It hasn't been necessary. Time has done its work unaided.

One can give an ordinary wall of common brick a single coat of whitewash, forget all about it, and in a little matter of from two to three years, depending largely upon the weather conditions, he may have a home or ground trimmings that in the point of appearance will very successfully rival any European survival of the 15th century. It is really astonishing what a change will be wrought.

Under the action of the elements the whitewash wears away gradually, exposing the darkness of the brick underneath and producing a peculiar merging of mottled shadings that is altogether delightful in its appearance of extreme age. Care should be exercised in the initial application of the whitewash not to have it too heavy. A thickness sufficient to result in chipping off in flakes fails inevitably in producing the desired effect. The whitewash is not intended to come away in chunks; the ideal result is to have it simply wear away and through.

One not inconsiderable advantage to the builder who plans a whitewashed house is that he need lose neither time nor sleep over the selection of the brick he intends to use. Any well-burned common brick will answer. And when the home is ten years old he will have something that will look like it had simply been upthrust from the earth some centuries back, and had settled back into harmonious lines.

Possibly of all the various types of architecture the English fits most effectively into the scheme of whitewashing. Chiefly this is due to the effect that may be produced with its usual broad expanse of roof appropriately trimmed with a thatch-like heavy slate whose varying colors may be made to blend harmoniously with its surroundings. The long slope of slated roof which seems simply to melt away into the foliage of the adjacent evergreens is invariably and peculiarly appealing.

Throughout the East the use of common brick with this coating of whitewash is growing tremendously in the residence construction field. Hundreds of such homes have been built during the last few years in the smaller towns adjacent to New York City. The idea is taking strong hold through New England and not only in the Philadelphia district but westward through Pennsylvania it is also taking root. Farther West in Cleveland and Chicago, particularly the latter, whitewashed homes and brick garden walls are becoming a feature rivalled only by that other common brick development, skintled brickwork.

In Cleveland one of the most conspicuous examples of whitewashed residence was built several years ago in the exclusive Heights residence district entirely of common brick, largely second-hand. When it was completed the whitewash was applied and today there is not a more attractive home anywhere in its very aristocratic neighborhood.

Chicago's environs are dotted with common brick homes with the whitewash treatment. Many of these have carried the effect into the decoration of the grounds as well and brick garden walls have been similarly treated. Many of these are of but recent construction but there are some that are already beginning to evidence what may be expected within the next few years. And they are altogether assuring.

No type of home fits so well into a carefully landscaped surrounding as the one that has been subjected to a coat of whitewash. Nowhere does one encounter such a delightful contrast as that furnished by the close contact of whited wall and luxuriant evergreen. And how a bit of climbing ivy accentuates it all! Where one is fortunate in having wooded backgrounds the effect cannot be surpassed. Always there is a satisfying sense of beauty and comfort more than ordinarily combined. —*Building Economy.*

TO DANGER IS ADDED ABSURDITY

More and more is being emphasized the absurdity of the effort of the cement interests to change the definition of brick. It is not only absurd but it is dangerous. Better proof of both contentions could hardly be asked than is furnishing in this little item which has been floating around rather promiscuously of late in the building supply and other trade publications:

"Bricks prepared from shredded fibers of palmetto, sea grass or other similar materials have appeared on the building markets and are said to have proved satisfactory in various types of construction. They are considerably larger than the ordinary brick and can be arranged to form their own mold for reinforcing pillars of concrete, or on like jobs."

What will happen to firsesafe construction if such material as this is permitted to slip into a general classification of brick? Just about how much fire resistance could be expected from a product made of sea grass, or palmetto fiber, or similar material?

Yet it would have the same right to be called a brick as would the cinder-concrete product in whose interest the effort is being made.

Changing the definition along the broad lines advocated by the cement interests would be merely licensing substitution and opening the gates to shoddy construction to a degree never possible in the past.

The most surprising feature of it all is that the dictionary publishers ever gave the suggestion even a moment's consideration.

Its menace to the stability of honest construction should have condemned it at sight.—*Building Economy.*

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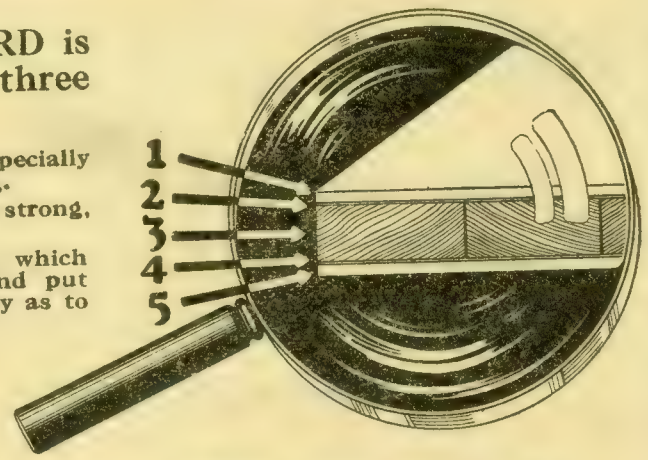
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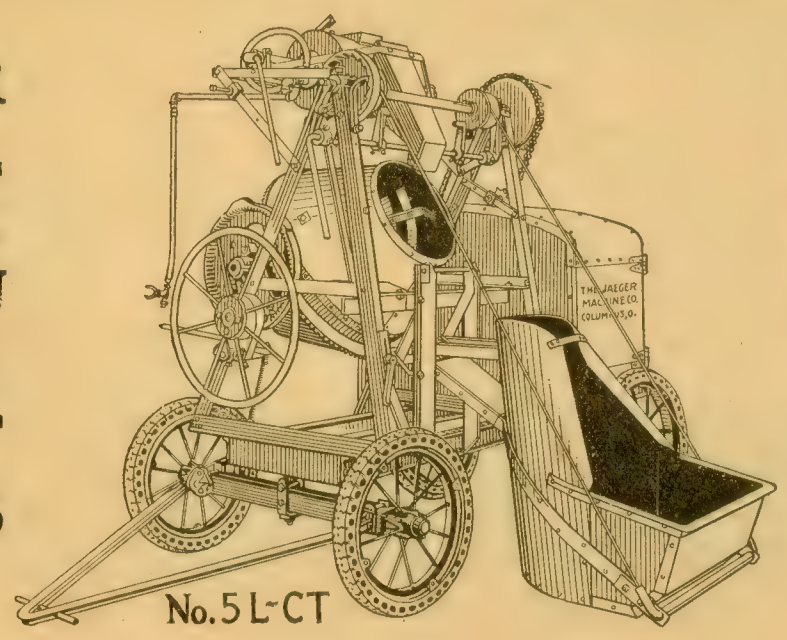
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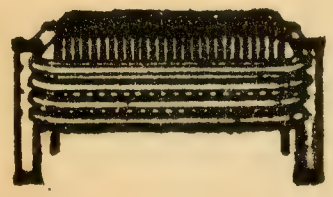
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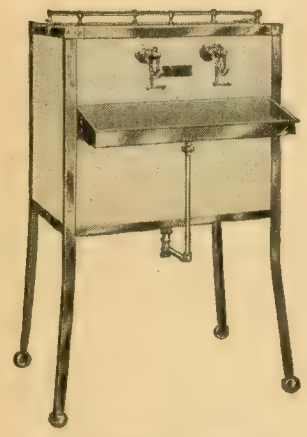
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 36

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As The Editor Sees It

PERTINENT POINTS ON BUILDING INVESTMENT

Suggestions to Investors and Owners as to buying Real Estate Securities on Contemplated or New Building Construction

Issued by the American Construction Council

Foreword

The average member of the investing public whose money goes into mortgage bonds or other forms of financing building construction seldom possesses the information necessary to make a wise selection of securities, nor does he appreciate what points such data should cover.

Some real estate securities are good; some are bad; some are fair; some are highly speculative. Every building must be considered as a separate problem.

There are many items that go to make up a sound real estate security, and they must be borne in mind by the building investor.

Taking for granted such points as a reliable loaning institution and proper location and design for the purpose for which the building is needed, the most important thing is first class construction.

The passing of the acute building shortage with its short-lived building boom, and the return to normal consideration of building costs and values make structures of inferior quality an increasingly heavy liability.

The public must be most cautious about the kind of construction on which, and the concerns to whom it lends its money for building investment.

WHAT TO CONSIDER

Point I.—Deal only with Reliable Investment Houses or other Loaning Institutions.

It is well to obtain advice from several independent sources as to the proper kinds of investment houses for your purposes. For sound investment, both safety for and return from your money are essential. The problem is to get the proper balance between the two for your own particular needs.

In all cases safety and return on the investment must be sought. As the former increases the latter decreases. To what extent this goes in any given case, however, depends upon various factors that are common to all sound real estate securities.

First among these comes the reputation and good business judgment of the institution that issues the mortgage bonds or other securities. You should satisfy yourself of the soundness of the institution and its business methods, not only in its dealings with you as an investor, but also with the owner, the builder and the management of the building, the continuous earning capacity of which pays the interest on the securities for which it is collateral.

Not only the judgment of the loaning institution in loaning the money for the construction of a new building, but also the measures that the loaner takes to insure that the building is well built, and properly managed, are most important, for it is to the loaning institution that the individual investor must look for the satisfactory handling of these matters.

An adequate sinking fund to insure full payment of the loan when due and proper amortization are other important factors.

Point II.—Consider the Purpose of the Building

The prospective investor should consider the purpose for which the building is being erected, whether it is to be used as an office building, apartment hotel, apartment house, hotel, loft, warehouse, etc. He should bear in mind whether the future, as well as the present demand for such a building will make it

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a good earning proposition. A loan which may be justified for one type of building at a given time or place would be folly for another type.

Point III.—Make Sure the Location is Good.

Consider the location of the building as related to its use. An office building might be placed, for example, where few people would wish to have their offices. Transportation facilities are a most important factor. The general character of the surroundings is likewise important.

Of great import, too, is the possible future shifting of business and residential centers. A location which may be excellent at the time an office building, for example, is erected might prove disastrous because of future changes in the business district.

Point IV.—Consider the General Type and Design of the Building.

Although the purpose of the building may be well conceived and a good location secured, it is essential that the general type and design of the building harmonize with these factors. For example, an apartment hotel, if a high grade of tenancy is desired, should not be built to look like a loft building.

The building should not only be adapted to the use to which it is to be put but also should be designed and laid out to combine beauty and utility.

Point V.—Be Certain that the Quality of Construction is Good.

First class construction, including materials and workmanship for both interior and exterior, is absolutely essential. Otherwise what may appear on the surface to be a well-built building may deteriorate after a few years and become a costly burden because of heavy repair bills, maintenance costs and loss of tenants. Materials and types of construction should be used which will suffer the least possible obsolescence.

It is essential, of course, to bear in mind that as a general proposition no more than enough should be spent on a building than is necessary to create an economic and well appearing improvement.

Point VI.—Consider Carefully the Earning Capacity of the Building.

After all it is the continuous earning capacity of the building as a complete service unit that determines the real value of the bond or other security placed upon it. This depends upon the initial cost of the building and also upon present and future market conditions for the type of tenancy which the building is intended to serve.

Such factors, therefore, as reasonable construction costs, including the cost of the land, of building and of financing, taxation, assessments and the like are important. To determine this requires an appraisement of the entire property, both land and buildings, which should take into consideration the purpose for which the building is to be used.

General market conditions for the sale and rental of buildings of similar types in the same locality, and probably future trends are equally important. The general affect of construction conditions and possibile new construction of similar types in the same and competing localities needs to be studied.

Point VII.—Bear in Mind Also the Kind of Management the Building Will Have After Completion.

Nobody would consider investing his money in a poorly run factory or railroad if he knew such conditions existed. Yet frequently the investor gives no thought to the kind of management a building will have once it has begun operation.

Without good management, a good building will sooner or later prove a poor investment. The prospective investor should make certain that the terms of the loan require that the owner provide and maintain first class supervision of the building in every way.

PROPERTIES AND MANUFACTURE OF CONCRETE BUILDING UNITS DESCRIBED IN NEW PUBLICATION OF BUREAU OF STANDARDS

While concrete units have long been used in building construction it is only within the past few years that the manufacture of concrete brick, block, and tile has attained a rapid growth. This growth has been brought about largely by the heavy demand for building materials and the efforts of interested associations in bringing to the attention of the public the desirable features of concrete units.

Numerous inquiries are received at the Bureau of Standards, of the Commerce Department from people who are interested in learning more of the properties of concrete units and the details of the manufacturing methods. In order to answer these questions in a reasonably complete manner, a circular has been prepared covering the essential features of concrete brick, block, and building tile, and giving some general information about their manufacture.

(Continued on page 578)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Church (add.), Frankford, Philadelphia. Architect, C. H. Fries, Drexel Building, Philadelphia. Owner, name withheld. Brick, 30x40 feet, slate roof, hardwood floors, hot air heat, electric light. Plans in progress.

Church and School and Community Building, State road and Sellers avenue, Bywood, Delaware County, Pa. Architect, J. B. Thompson, 34 South Seventeenth street, Philadelphia. Owners Mary C. Sellers Methodist Episcopal Church, Bywood, Delaware County, Pa. General alterations and additions to church, stone, 20x30 feet, slate roof, new building, stone, structural steel, concrete, limestone, granite, 3 stories, 80x56 feet, built-up roof, sheet metal work, composition and quarry tile roof, slate shower, enclosed metal toilet partitions, canvas curtains, wall treatment, electric work, plumbing, steam heat, steel casement. Architect will be ready for bids September 15th.

Museum (add.), Thirty-fourth and Spruce streets, Philadelphia. Architects, Day & Klauder, Franklin Bank Building; Stewardson & Page, 315 South Fifteenth street; Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Brick, stone, steel, marble, reinforced concrete, tile roof, cement floors, hollow tile, plumbing, metal lath, terrazzo and marble work, waterproofing, ornamental iron work, granite, bluestone, area gratings. Revised plans in progress.

Garage and Show Room, Southwest Corner Front and Westmoreland streets, Philadelphia. Architects, Watts & Coscia, Liberty Building, Philadelphia. Owners, Allegheny and Front Holding Syndicate, care of architect. Brick, steel, 2 stories and basement, 60x105 feet, slag roof ,cement floors, ornamental iron work, rolled steel sash. Architects taking bids due September 10th.

Manufacturing Building, Eighth, Ninth and Duncannon streets, Philadelphia. Architect, private plans. Owners, Dairy Maid Confectionery Co., 4928 North Broad street, Philadelphia. Brick, steel, 1 story and basement, 203x50 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, terra cotta. Owners taking bids.

Factory (add.), Venango, East of Kensington, Philadelphia. Architect, Amos W. Barnes, Perry Building, Philadelphia. Owners, Craftex Mills, Inc., on premises. Brick, concrete, steel, 3 stories and basement, 43x50 feet (plumbing, heating and electric reserved), slag roof, cement and pine floors, painting and glazing, ornamental iron work, rolled steel sash. Architect taking bids due September 9th.

Stenton Park Branch, Northeast Corner Sixteenth and Courtland streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Scott-Powell Dairies, Inc., Fortieth and Parrish streets, Philadelphia. Brick, steel, 2 stories and basement, 145x84 feet (plumbing, heating, electric, cork insulation reserved), built-up asphalt roof, cement floors, metal lath, rolled steel sash and doors, bond, ornamental iron work, area gratings, architectural terra cotta. Architects taking bids due September 11th at noon.

Building, Ridge and Roxborough avenue, Philadelphia. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, William Freeland Kendrick Playground, care of Bureau of Recreation, Philadelphia. Owners taking bids due September 17th, 11 A. M. Deposit $30. Refund $20. Certified check, 5 per cent.

House of Correction (add.)), Holmesburg, Pa. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Welfare, City of Philadelphia. Low bidders: Roberts & Roller, 1700 Walnut street, $764,000, $136,000 (omission of administration building; J. E. Baton, 1713 Sansom street, Philadelphia, $807,000, $137,000. Heating, W. Anderson, 600 Schuylkill avenue, Philadelphia, $144,975, $10,975. Plumbing, Borden & Brother, 637 North Nineteenth street, Philadelphia, $95,850, $8,550. Electric, W. V. Pangborne Co., 1927 West Montgomery avenue, Philadelphia, $58,420, $4,412. All bids rejected. Plans will be revised.

Sewage Disposal Plant, Northeast Sewage, Wheatsheaf lane, Philadelphia. Owners, Department of Public Works, Bureau of Engineers, 216 City Hall, Philadelphia. Low bidders: Edward Fay &Son, 2 South Mole street, Philadelphia, $684,000; George Dobbins, 1020 South Forty-seventh street, Philadelphia, $686,000. Mechanical equipment, C. M. Brown & Co., Lafayette Building, Philadelphia, $193,-486. Electric, W. V. Pangborne & Co., 1927 West Montgomery avenue, $88,984. Plumbing, J. J. White, 519 Arch street, Philadelphia, $2,700.

Residences (6), South side Decatur, West of Erdrich street, $27,000. Architect, private plans. Owner, J. G. Stevenson, 7014 Hegerman street, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Permit issued.

Garage, 841 North Uber street, Philadelphia, $4,500. Architect, private plans. Owner, John J. McIver, 852 North Nineteenth street, Philadelphia. Brick, 2 stories, 18x76 feet, slag roof, cement floors, electric light. Permit issued.

Garage, 3517-19 Old York road, Philadelphia, $75,000. Architect, Herman Kline, 717 Bulletin Building, Philadelphia. Owner, B. Cylinder, 363 East Roosevelt Boulevard, Philadelphia. Brick, 51x130 feet, 40x72 feet, slag roof, cement floors, electric work. Permit issued.

Residences and Stores (3), West side Rising Sun avenue, South of Rosalie street, Philadelphia, $16,500. Owner, Joseph Friedman, 4831 North Twelfth street, Philadelphia. Brick, 2 stories, 16x55 feet, slag roof, hot water heat, electric light, hardwood and pine floors. Permit issued.

Residence and Store, Southwest Corner Rosalie and Rising Sun avenue, $7,000. Architect, private plans. Owner, Joseph Friedman, 4831 North Twelfth street, Philadelphia. Brick, 2 stories, 16x60 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Garage, Sixteenth street, North of Ontario street, Philadelphia, $30,000. Architect, Edward Halderman, 5407 North Twenty-first street, Philadelphia. Owner, I. Yobbe, 5042 North Eighth street, Philadelphia. Brick, 2 stories, 55x175 feet, slag roof, cement floors, electric work. Permit issued.

Residence, 3000 East Princeton avenue, Philadelphia, $5,000. Architect, private plans. Owner, W. Hascher, 2109 East Granite street, Philadelphia. Brick, 2 stories, 36x54 feet, electric lighting, pine floors. Permit issued.

Garage, West side Gillespie street, North of Faust street, Philadelphia, $3,000. Architect, William Duryear, 1967 Faust street, Philadelphia. Owner, Louis Merget, 5703 Torresdale avenue, Philadelphia. Brick, 1 story, 88x18 feet, slag roof, cement floors, electric light. Permit issued.

Delaware River Bridge, Contract No. 290. Owner, Delaware River Bridge Joint Committee, Widener Building, Philadelphia. Alterations to Fourth street abutment, Philadelphia. Demolition of masonry construction, of concrete paving, steel work and partition inside abutment, other work. Contract tile 60 days (Calendar). Deposit $25.00. Refunded. Certified check $2,000, and surety bond. Owner taking bids due Sept. 15th, at 2.30 P. M. (S. T.)

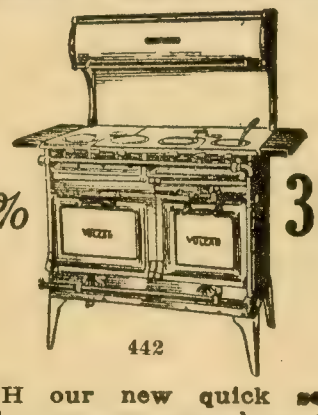
Toilet Rooms in Buildings (alts.), Corinthian and Girard Avenues, Philadelphia. Architect, J. T. Windrim, Commonwealth Building, Philadelphia. Engineer, Day and Zimmerman, 1600 Walnut street, Philadelphia. Owner, Girard College, F. O. Zesinger, Steward, on premises. Demolition, concrete work, cut stone plastering, hardware, painting and glazing, electric work, plumbing, heating (steam), marble and tile work, hollow tile, pipe rails. Owner taking bids due Sept. 19th.

Miscellaneous Work, Philadelphia. Owners, Department of Public Work, Bureau of Engineering, 216 City Hall. Schedule A, Main Sewers, in Rising Sun Avenue, Philadelphia. Schedule B, Sewage Disposal project, Taconv Creek, Interior Sewer. Schedule C, Elimination of grade crossing, Contract No. 101, Bridge at Ridge Avenue, Manayunk Elevated. Certified check 5% of bid. Owner taking bids due Sept. 15th at noon.

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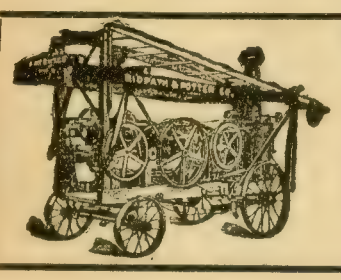


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Manse, Chelten and Limekiln Pike, Philadelphia. Architect, Heacock and Hokanson, 1211 Chestnut street, Philadelphia. Owner, Covenant Presbyterian Church, N. W. Hathway, 20th and Chelten Avenue. Stone, 2 stories, slate roof, oak and pine floors, hot water heat, electric light, tile work. Revised plans in progress. Will be ready for bids in two weeks.

Residence (alts. and add. to Apartment and Stores), 554 E. Washington Lane, Philadelphia. Architect, Wm. F. B. Koelle, Otis Building, Philadelphia. Owner, Edwin C. Erhart, care of Architect. Brick, steel, 3 stories, gas radiation heat, electric light, metal lath, slag roof, pine floors . Revised plans in progress.

Alterations and Additions, 927 Locust street, Philadelphia. Architect, Benjamin Schulman, 1722 Arch street, Philadelphia. Owner, Mr. L. Wiser, on premises. Electric light, tile work, bond, slag roof, shoring, steel work, concrete work, carpentry and millwork, plastering, hardware. Architect taking bids.

Sales and Service Station, Northeast corner Fifty-fifth and Walnut streets, Philadelphia. Architect, private plans. Owner, William Burstein and Brother, Sixty-first and Walnut streets, Philadelphia. Brick and steel, 2 stories and basement, 25x75 feet. Owner ready for bids.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Office Building, Nixon street, above Levering street, Manayunk, Philadelphia. Architect, I. E. Spirer, 1926 Independence street, Oak Lane, Philadelphia. Owners, William Spink Co., on premises. Brick, steel, 2 stories and basement, 18x26 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded H. F. Brown, 6100 Ridge avenue, Philadelphia.

Bank (alts.), Oxford avenue and Rhawn street, Philadelphia. Architect, C. H. Fries, Drexel Building, Philadelphia. Owners, Fox Chase Bank & Trust Co., on premises. General alterations, brick, cut stone, electric light, rolled steel sash, slag roof, cement pavement, grading, mill work, painting and glazing, stained glass. Contract awarded William F. Lotz, Oxford avenue and Rhawn street, Philadelphia.

Gardener's Cottage (add.), Bethlehem Pike, Chestnut Hill, Pa. Architect, J. L. Connaroe, 225 South Sydenham street, Philadelphia. Owner, J. B. Van Sciver, Bethlehem pike, Chestnut Hill, Pa. Stone, 2 stories, 22x15 feet, slate roof, hot water heat, electric light, tile work. Contract awarded I. Demarest, 10 South Eighteenth street, Philadelphia.

Printing Shop, Garage and Apartments (alts. and add.), 1328 South Twentieth street, Philadelphia. Architect, John J. Carroll, 1619 Chestnut street, Philadelphia. Owner, Daniel A. Sullivan, 1315 South Twentieth street, Philadelphia. General alterations and additions, rear addition to 1 story floor, 15x50 feet, second floor, 12x14 feet, slag roof, cement and pine floors, brick, hot water heat, electric light, plumbing, iron work. Contract awarded J. P. Marron, 2603 Wilder street, Philadelphia.

Store (ext. alts.), 1812 Market street, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owner, J. C. Fuller, 10 South Eighteenth street, Philadelphia. Changing store fronts. Contract awarded I. Demarest ,10 South Eighteenth street, Philadelphia.

Bank Building (add. and alts.), Broad and Ruscomb streets, $50,000. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Germantown Trust Co., Germantown and Chelten avenues, Philadelphia. Brick, 1 story add., 24x53 feet, slag roof, maple floors, metal lath, vapor heat, electric light. Contract awarded to Hoggson Brothers, 485 Fifth avenue, New York.

Residence, South side Bell's Mil lroad, East of Germantown avenue, $30,000. Architect, Louis Duhring, 1309 Locust street, Philadelphia. Owner, Clarence Rodgers, Westview street, Philadelphia. Stone, 3 stories, 22x43 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to John Moffley, 518 Mt. Airy avenue, Philadelphia.

Residence and Garage, Northwest Corner Blakiston and Dittman streets, $5,500. Architect, S. Burzzynski, 2676 LeFevre street, Philadelphia. Owner, John C. Rzipsky, 2415 East Clearfield street, Philadelphia. Brick, 2 stories, 26x40 feet, garage, 1 story, 18x20 feet, pine and cement floors, electric light-

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ing. Contract awarded to S. Pietrykowski, 2607 East Allegheny avenue, Philadelphia.

Storage Building, 2310 South street, Philadelphia, $3,000. Architect, J. E. Fieldstein, Otis Building, Philadelphia. Owner, O. Reichard, 660 Preston street, Philadelphia. Brick, 2 stories, 16x26 feet, slag roof, electric work. Contract awarded to H. G. Walter, 412 North Fortieth street, Philadelphia.

Mill Building, Venango and Weikel streets, Philadelphia, $21,000. Architect, private plans. Owners, Olympia Hosiery Mills, Inc., care of builder. Brick, steel, 1 story, 45x100 feet, slag roof, plumbing, steam heat, electric light. Contract awarded to William F. Lotz, 4644 Frankford avenue, Philadelphia.

Coal Trestle, 1213 Callowhill street, Philadelphia, $5,000. Architects, Belmont Iron Works, Twenty-first and Washington avenue, Philadelphia. Owner, Charles M. Rogers, 1213 Callowhill street, Philadelphia. Contract awarded to G. W. Phillips Co., Wayne, Pa.

Apartment House (alts.), 2966 North Fairhill street, Philadelphia, $4,000. Architects, Penwood Co., 131 North Fifteenth street, Philadelphia. Owners, Gottleib & Richman, 703 Jefferson Building, Philadelphia. General alterations. Contract awarded to N. Weissman, 4815 North Hutchinson street, Philadelphia.

Manufacturing Building, Southwest Corner Sepviva and Butler streets, $50,000. Architect, private plans. Owners, Belmont Packing Co., on premises. Steel, 2 stories, 80x130 feet, slag roof, electric lighting. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Garage, 1528-30 Frankford avenue, Philadelphia. Architect, private plans. Owner, Frank Matchesky, 5045 Sydenham street, Philadelphia. Brick, 35x35 feet, slag roof, cement floors, electric lighting. Contract awarded to Harry Glass, 5324 Berks street, Philadelphia.

Residence, North side Rhawn street, East of Rowland avenue, Philadelphia, $6,000. Architect, private plans. Owner, G. Wilbur Nixon, 8020 Frankford avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to J. A. Hand, 2511 Rhawn street, Philadelphia.

Building (add. and alts.), 759 South Fourth street, Philadelphia, $4,000. Architect, private plans. Owner, S. Waschsief, on premises. General alterations and addition. Contract awarded to M. Cherry, 137 North Tenth street, Philadelphia.

Garage, East side Mulberry street, North of Wakeling street, $3,000. Architect, private plans. Owners, Barfort & Holcomb, 5355 Oxford avenue, Philadelphia. Brick, slag roof, cement floors, electric lighting. Contract awarded to F. Wiggs, 340 Sentner street, Philadelphia.

Building (add. and alts.), 128 West Girard avenue, Philadelphia, $3,000. Architect, private plans. Owner, Rudolph Schotz, 133 West Girard avenue, Philadelphia. Brick, 1 story add., 12x7 feet, general alterations. Contract awarded to Daniel Reswick, 5110 North Lindenwood street.

Building (add. and alts.), 5409-11 North Fifth street, Philadelphia, $15,995. Architect, private plans. Owners, American Legion, Post No. 388, 5409 North Fifth street, Philadelphia. Brick, 2 stories add., 32x14 feet, general alterations. Contract awarded to Louis Bracunig, Jr., 5800 North Fourth street, Philadelphia.

Residences (2), East side Ryers avenue, North of Stanwood street, $7,000. Architect, Edward Karklin, 1332 Cottman street, Philadelphia. Owner, John Corbitt, 3308 Fanshawe street, Philadelphia. Brick, 2 stories, 16x25 feet, 14x8 feet, slag roof, pine floors. Contract awarded to Louis Sufor, 1534 Cottman street, Philadelphia.

Factory, 1815 Sedgley avenue, Philadelphia, $5,000. Architect, Clarence Wunder, 1520 Locust street, Philadelphia. Owners, Weidman Machine Co., on premises. Brick. Contract awarded to Paul Brosz, 2511 West Huntingdon street, Philadelphia.

Building (add. and alts.), 2830 Lehigh avenue, Philadelphia, $7,900. Architect, private plans. Owner, B. Blumenthal, 2830 Lehigh avenue, Philadelphia. Brick, 16x15 feet, slag roof, electric work. Contract awarded to B. Tillinger, 1511 North Marshall street, Philadelphia.

Manufacturing Building, Southwest Corner Second and Glenwood avenue, $3,000. Architect, private plans. Owners, Betzold Brothers, 3525 North Second street, Philadelphia. Brick, 1 story, 20x40 feet. Contract awarded to Knox-Landers Co., 1132 Vine street, Philadelphia.

Pennsylvania Construction News

Residence, T2, Greywall road, Overbrook Hills, Merion, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, McWilliams & Maloney, 539 South Fifty-second street, Philadelphia. Brick, frame, 2½ stories, 30x38 feet, 11x18 feet, shingle roof, oak floors, central heat, electric light, tile and marble work, metal lath, cement work, flagstone. Plans in progress.

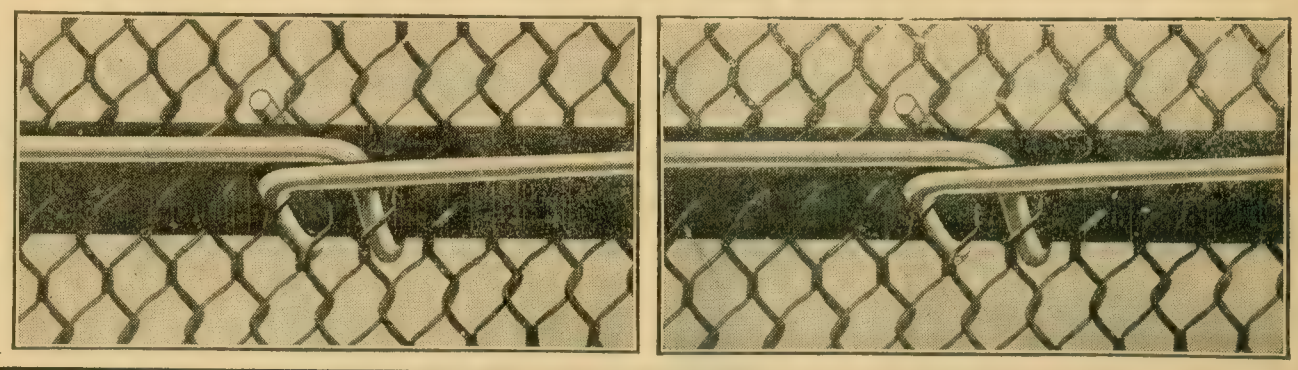
Residence (alts. and add.), Bell Mill and Earl roads, Bryn Mawr, Pa. Architects, Edwards & Hoffman, 315 South Fifteenth street, Philadelphia. Owner, Hancock Payne, on premises. Stone, 3 stories, 39x30 feet add.,

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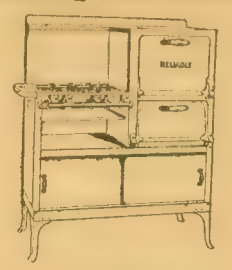
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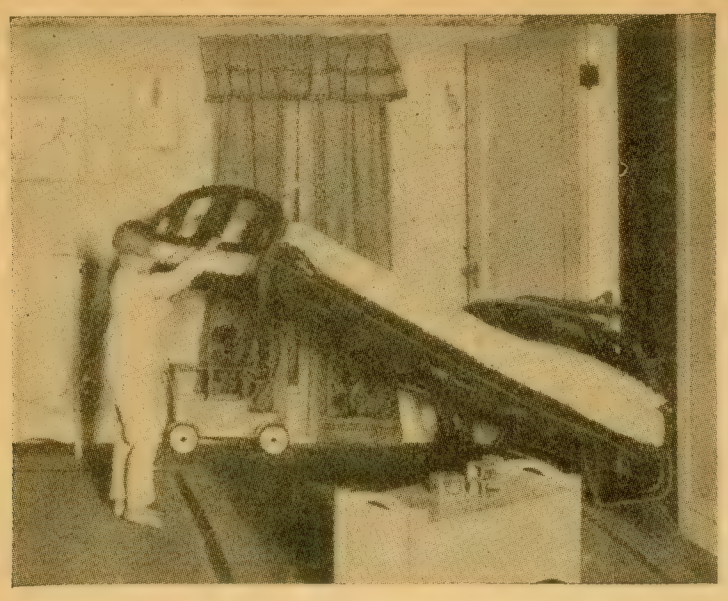
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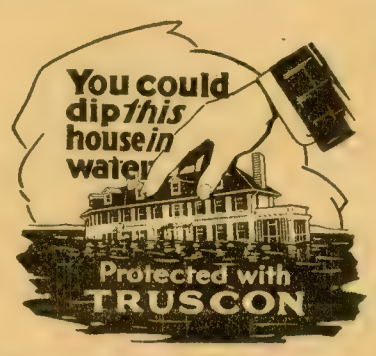
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shingle roof, hardwood floors, hot water heat, electric light, tile and marble work. Preliminary plans in progress.

Residence, Elkins Park, Pa. Architect, H. Rex Stackhouse, 266 South 15th street, Philadelphia. Owner, name withheld. Stone, frame, 2½ stories, 34x43 feet, wood shingle roof, hardwood floors, hot water heat, electric, tile and marble work. Preliminary plans in progress.

Church-Sunday School, Tyrone, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, First Methodist Episcopal Church, R. J. Allen, Tyrone, Pa. Stone, 2 stories and basement, 80x100 feet, slate roof. Preliminary plans in progress.

Apartment Houses (8), Lansdowne, Pa. Architect, R. L. Goldberg, 266 South Fifteenth street, Philadelphia. Owners, Herman E. Greenburg Co., Inc., North American Building, Philadelphia. Brick, 2 stories, 36x50 feet each, slag and tile roof, hardwood floors, heating undecided, electric light, tile and marble work. Owners taking sub-bids.

Club House (add.), near Bethayres, Pa. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Philmont Country Club, Ellis Gimbel, president, on premises. Brick, hollow tile and stucco, 2½ stories. Ready for bids in ten days.

Parochial School, Convent (add.), Conshohocken, Pa. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, Parish of St. Mary's, Rev. J. Mioducewski, Conshohocken, Pa. Brick, 2 stories, 35x80 feet. Work on school will be held up until spring, 1927. Convent, plans in progress, ready for bids spring, 1927.

Theatre, Lodge, Stores and Apartments, Mt. Carmel, Pa. Architect, Willis A. Hall, Upper Darby, Pa. Owners, Sons of Veterans, Burnside Post, Mt. Carmel, Pa. Brick, stone, concrete, 1 story and 2 stories, 150x112 feet, hardwood and cement floors, hot water heat, electric light, fore doors. Plans about completed. Architect will take bids in about one week.

Stores (6), Apartments (8), Kirkland avenue and West Chester pike, Delaware County, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, W. Rosenfeld, Sesqui-Centennial Realty Co., 7219 Market street, Upper Darby, Pa. Brick, cement block, stucco, 2 stories, (1) 20x56 feet, (5) 16x56 feet, slate and slag roof, hardwood floors, hot water heat, electric light, tile and marble work, metal bulks, plate glass, Murphy beds, kitchen equipment. Owner is taking sub-bids.

Two-Family Residence, Kirkland avenue below West Chester pike, Delaware County, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, W. Rosenfeld, Sesqui-Centennial Realty Co., 7219 Market street, Upper Darby, Pa. Brick, stucco, cement block, 2 stories, 17x56 feet, slate and slag roof, hardwood floors, hot water heat, electric light, tile and marble work. Owner is taking sub-bids.

Residences (10), Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, George Weidenheimer, Allentown, Pa. Brick, 2 stories, 140x41 feet, slag roof, pine floors, hot water heat, electric light. Owner will take bids.

Residences (2), Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Charles Diehl, Allentown, Pa. Brick, 2½ stories, 36x53 feet, asbestos roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Passenger Station, Frackville, Pa. Architect, O. G. Herold, Twelfth and Market streets, Philadelphia. Owners, Philadelphia & Reading Railway, Twelfth and Market streets, Philadelphia. Reinforced concrete, steel. Plans about completed. Owners will take bids in about ten days.

Residence (alts. and add.), Paxon Hollow road, Marple Township, Delaware County, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, name withheld. Plans completed. Architect ready for bids.

Bakery (add.), Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, John H. Mohr, 1320 Chew street, Allentown, Pa. Brick, steel, 3 stories, 20x45 feet, slag roof, pine floors, roof ventilators, iron stairs, steel sash, electric light, steam heat. Owner will build.

Hall, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Columbus Club, C. Plena, 207 Jerome street, Allentown, Pa. Brick, 1 story, 52x25 feet, slag roof, pine floors, steam heat, electric work. Owners ready for bids.

School, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart School, Father Fink, Allentown, Pa. Brick, stone trim, 3 stories and basement, 66x120 feet, built-up roof, hardwood floors, hollow tile, safety tredas, roof ventilators, waterproofing and dampproofing, steel sash, metal lath, fire doors, iron stairs, ornamental iron (heating, plumbing and electric reserved). Architects ready for bids.

Twin Residence, Lansdale, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, John M. Starr, 21 West Main street, Lansdale, Pa. Cement block, 32x38 feet, asbestos roof, yellow pine floors, hot water heat, electric light. Owner taking bids.

Residence and Garage (alts. and add.), State road, Bryn Mawr, Pa. Architect, Ralph Colton, 225 South Sydenham street, Philadelphia. Owner, Charles Jones, on premises. Stone. Architect taking bids due September 13th.

Stores (2), Offices (2), Apartments (1), Lansdowne, Pa. Architect, Sol. Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Harrison Brothers, Bryn Mawr, Pa. Brick, limestone, 2 stories, 30x80 feet, slag roof, hardwood floors, steam heat, electric light, metal ceilings, metal bulks, plate glass, galvanized iron cornices. Plans in progress. Architect will be ready for bids in 10 days.

Residence, Kennett Square, Pa. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owner, name withheld. Frame, 2½ stories, 30x30 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Residence, Villa Nova, Pa. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owner, Samuel R. Earl, care of architect. Brick, 2½ stories, 30x40 feet, shingle roof, oak and pine floors, hot water heat, electric light, tile, rolled steel sash, ornamental iron work. Architects taking bids due September 9th.

Children's Hospital, near Elizabethtown, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, State of Pennsylvania, Department of Health, Harrisburg, Pa. Brick, cut stone, concrete, granite, 2 stories and basement, 142x49 feet, slag roof, cement floors, hollow tile, waterproofing, metal lath, tile and marble

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work, hollow metal doors, bond, floor hardener, iron stairs, ornamental iron work, area gratings. Owners taking bids due September 20th at noon.

Auditorium, Sellersville, Pa. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, L. O. O. M., Sellersville, Pa. Brick, steel, 2 stories, 40x85 feet, slag roof, maple floors, hot water heat, electric light. Architect taking bid sdue September 17th.

Sewer System, Bridgeport, Pa. Borough engineer, James E. Cresson, Norristown, Pa. Consulting engineers, Albright & Mebus, 1502 Locust street, Philadelphia. Owners, Borough of Bridgeport, Montgomery County, C. Coyle, secretary, Bridgeport, Pa. Deposit of $10, refund $5. Certified check 3 per cent. Owners taking bids due September 21st at 7 P. M. (Standard Time).

Residence, Bryn Mawr, Pa. Architect, Thomas Martin and Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, L. Rodman Page, care of Architect. Stone, 2½ stories, 40x100 feet, slate roof, oak and pine floors, plumbing, hot water heat, electric light, metal lath, tile work, rolled steel sash, linoleum floors. Architect taking bids due Sept. 13th.

Residences (43), Kingston Road, Stonehurst, Pa., $192,000. Architect, private plans. Owner, Samuel Rhodes, Media, Pa. Brick, 2 stories, 16x38 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble work, garages in basement. Owner will build.

Store and Apartment and Garages (12), Stonehurst Hill, Pa., $96,000. Architect, private plans. Owner, L. Carl Kenny, Stonehurst, Pa. Brick, 2 stories, 16x46 feet, 12x18 feet, slag and tile roof, hardwood floors, cement floors, hot water heat, electric light, tile work. Plans in progress. Owner will take bids in about a month.

High School, Ephrata, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owner, School District of Ephrata Borough, Dr. J. M. Baum, Ephrata, Pa. Brick, precast stone, steel, limestone, 1 and 2 stories and basement, 172x110 feet, (plumbing, heating, electric, separate), cement and maple floors, hollow tile, waterproofing, metal lath, tile work, rolled steel sash, bond, ornamental iron work, iron stairs. Deposit, $2000. Refunded. Certified check 5% of bid. Owner taking bids due Sept. 27th.

Residence (alts. and add.), Marple, Del. Co., Pa. Architect, Henry R. Reinhold, 1513 Walnut street, Philadelphia. Owner, Dr. Jules Blechschmidt, 2203 Walnut street, Philadelphia. Slate roof, shingle roof, bond, stone work, brickwork, cinder block or hollow tile, cement work, carpentry and millwork, pine floors, metal lath, plastering, plumbing, electric work, hot water heat. Architect taking bids due Sept. 12th.

Residence and Garage, Lapsley Road and City Avenue, Merion, Pa. Architect, Lucius R. White, Jr., Hearst Tower, Baltimore, Md. Owner, Robert C. Kolb, care of Architect. Stone, limestone, steel, 2½ stories and basement, 90x36 feet, wing 20x20 feet, (heating and electric reserved), variegated slate roof, cement, oak and pine floors, hollow tile, plumbing, painting and glazing, metal weatherstrip, terra cotta, metal lath, tile and marble work, bond, floor hardener, ornamental iron work, flagstone, area gratings, travertine work. Architect taking bids due Sept. 20th.

Roadway Improvement, Glenolden, Pa. Architect, Damon and Foster, Upper Darby, Pa. Owner, Borough of Glenolden, H. L. Simons, Fire House, Knowles Avenue, Glenolden, Pa. Construction of roadway, concrete sidewalks. Certified check $500. Owner taking bids due Sept. 9th at 8 P. M.

Extension of Driveway and Underpinning Retaining Walls, Pottsville, Pa. Architect, J. A. Wetmore, Washington, D. C. (Post Office Building). Owner, U. S. Government, Treasury Department, Washington, D. C. Brickwork, concrete work. Owner taking bids due Sept 14th at 3 P. M.

Pennsylvania Contracts Awarded

Cottage, Muncy, Pa. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, State Industrial Home for Women, F. Smith, 658 City Hall. Stone, cut stone, brick, steel, limestone, 2 stories and basement, 111x33 feet, wing 21x52 feet (plumbing, heating, electric and ventilating separate), black slate or copper roof, cement floors, painting and glazing, metal window guards, metal lath, marble work, bono, ornamental iron work, iron stairs, bluestone, metal toilet partitions, dumb waiters, laundry equipment. Contract awarded Pennsylvania Engr. & Const. Co., Real Estate Trust Building, Philadelphia.

School Building, Lansford, Pa. Architect, Sigmund J. Laschenski, Harrison Building, Philadelphia. Owners, S.S. Peter and Paul Parish, care of Cardinal Dougherty, Eighteenth and Race streets, Philadelphia. Brick, steel, terra cotta, 2 stories and basement, 48x10 feet ,slate and slag roof, maple floors, tile floors, vapor heat, electric light, rolled steel sash, wood and iron stairs. Contract awarded Charles Reiber, Lansford, Pa.

Hospital (add.), Fourth and Walnut streets, Lebanon, Pa. Architects, Bissell & Sinkler, 1620 Locust street, Philadelphia. Owners, Good Samaritan Hospital, Lebanon, Pa. Brick, 1 story and basement, carpentry and mill work, electric work. Contract awarded J. H. Griener, Lebanon, Pa.

Store (alts. and add.), Jenkintown, Pa. Architect, L. Walton Heiss, Jenkintown, Pa. Owner, Morris Goldberg, Jenkintown, Pa. Brick, steel, 2 stories and basement, 24x82 feet, slag roof, pine and cement floors, steam heat, electric light. Contract awarded Fesmire Brothers, Huntingdon Valley, Pa.

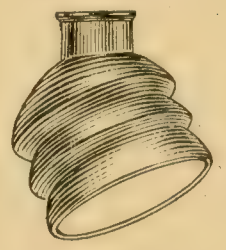
Convent, Columbia, Pa. Architect, Paul Monaghan, 1520 Locust street, Philadelphia. Owners, Sisters, Adorers of the Most Precious Blood, St. Joseph's Convent, Columbia, Pa. Stone, cut stone, concrete, steel, 3 stories and basement, 200x48 feet, wing 120x48 feet, tile roof, cement floors, hollow tile, painting and glazing, electric light, metal lath, tile, marble and terrazzo work, bond, ornamental iron work. Contract awarded W. DeGrott, Harrisburg, Pa.

Hall, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Italian Operative Association, care of architect. Brick, steel, 3 stories, 120x45 feet, slag roof, maple floors, hollow tile, roof ventilators, steam heat, electric light, metal lath, tile work, skylights, iron stairs. Contract awarded to John Rizzotto, Gordon and Maxwell streets, Allentown, Pa.

Dye House, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, Allentown Converting & Silk Dyeing Co., Allentown. Brick, steel, 1 story, 34x80 feet, slag roof, concrete floors, roof ventilators, electric light, steel sash. Contract awarded to J. Rizzotto, Gordon and Maxwell streets, Allentown.

Garage, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Mr. Swartz, care of architect. Brick, steel, 1 story and basement, 114x144 feet, slag roof, concrete floors, electric light, steel sash. Contract awarded to Butz & Clader, Ainey Building, Allentown, Pa.

Store (add. and alts.), Easton, Pa. Architect, E. H. Wenzelberger, 224 Northampton street, Easton, Pa. Owners, Bon Ton Store, 229 Northampton street, Easton, Pa. Brick,



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steel, 4 stories, 40x30 feet, slag roof, pine floors, steam heat, electric light, metal lath, tile and marble, steel sash and skylights, metal doors, elevators (2). Contract awarded to Benjamin Rymon, Phillipsburg, N. J.

Bungalows (2), Mountainville, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, care of architect. Brick, 1½ stories, 28x35 feet, hardwood floors, hot water heat. Contract awarded to J. Rizzotto, Gordon and Maxwell streets, Allentown, Pa.

Parish House and Sunday School, Wyncote, Pa. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, All Hallows' Church, Greenwood and Bent road, Wyncote, Pa. Stone, concrete, brick, steel, 2 stories and basement, 87x56 feet, green slate roof, cement and pine floors, steam heat, electric light, tile work, dumb waiter, incinerator, plumbing, granite linoleum floors. Contract awarded Roy Randall, Jenkintown, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Allegheny County, R-395, A-4099, Penn and Wilkins Townships. One course reinforced concrete. Contract awarded to Wilmerding Supply Co., Wilmerding, Pa., $193,231.39.

Franklin County, R-224, bridge. Contract awarded to W. W. Wolf & Co., Jersey Shore, Pa., $9,669.76.

Washington County, R-113, S-6, West Pike Run Township, Centerville and Beallville Boroughs. One course reinforced concrete. Contract awarded to Jones Const. Co., Woodlawn, Pa., $92,346.12.

Clarion County, R-218, Sec. No. 1, Shippenville Borough, Elk Township. One course reinforced concrete. Contract awarded to Joseph McCarty Const. Co., Kaukauna, Wis., $75,825.02.

Potter County, R-103, A-3968, Ulysses Township, 10,560 feet. W. B. macadam surface course. Contract awarded to D. L. Dennis, Galeton, Pa., $30,648.48.

Potter County, R-236, A-3359, 3979, Hebron and Clara Townships. W. B. macadam surface course. Contract awarded to D. L. Dennis, Galeton, Pa., $39,8842.72.

Bradford County, R-20, Canton Borough, 1,684 feet. One course reinforced concrete. Contract awarded to Montour Const. Co., Williamsport, Pa., $27,533.91.

Westmoreland County, R-302, A-4130, Ligonier Township. One course reinforced concrete. Contract awarded to Adam Eidermiller, Greensburg, Pa., $43,161.47.

Luzerne County, R-169-2, Bear Creek Township, 18,987 feet. One course reinforced concrete. Contract awarded to Paul R. Hostetter, York, Pa., $117,584.74.

New Jersey Construction News

Residence, Allentown, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owner, J. W. Naylor, Allentown, N. J. Frame, 2½ stories, 33x44 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Fire House, Hamilton Township, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Hamilton Township, care of architects. Brick, steel, 2 stories, 40x60 feet, slag roof, concrete floors, steam heat, electric light. Plans in progress.

Apartment House, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, name withheld. Brick, concrete, steel, 3 stories, 80x105 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Office Building and Apartment, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, C. J. Adams, Real Estate and Law Building, Atlantic City. Brick, stone, steel, 3 stories, 33x172 feet, slag roof, hardwood floors, city heat, electric light, tile and marble work, fire escape. Architect ready for bids.

Garage, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owners, Yellow Taxi Cab Co., Mr. Myers, 39 North South Carolina avenue, Atlantic City, N. J. Semi-fireproof, 2 stories, 112x155 feet, slag roof, concrete floors, elevators, skylights, metal lath, hot water heat, electric light. Owners taking sub-bids.

Warehouse, 210-14 Mickle street, Camden, N. J. Architect, name withheld. Owner, P. J. McGuire, 28 South Fourth street, Camden, N. J. Brick, 2 stories. Owner will be ready for general bids in about 3 months.

Apartment House, Chelsea, N. J. Architect, A. B. Steelman, Guarantee Trust Building, Atlantic City, N. J. Owner, H. Halpern, Chelsea, N. J. Brick, stone, steel, 5 stories, 38x83 feet, slag roof, hardwood floors, hollow tile, elevators, vapor heat, electric light, metal lath, tile work. Owner taking bids.

Office Building (add. and alts.), 135 East Hanover street, Trenton, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, W. M. Dickinson Co., 145 East Hanover street, Trenton. Brick, limestone, 1 story, slag roof, reinforced concrete floors, marble, plate glass, cut stone, granite, ornamental iron. Architects taking bids due September 9th.

School, Eighth and Jackson streets, Camden, N. J. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Board of Education, Camden, N. J. Brick, steel, cut stone, 2 stories and basement, 161x138 feet, slag roof, maple and cement floors, roof ventilators, metal lath, tile work, rolled steel sash, metal lath, bond, ornamental iron work. Owners taking bids due September 14th.

Springside School (add.), Burlington, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Board of Education of Burlington Township, care of architect. Brick, steel, 2 stories, 45x60 feet, slag roof, concrete floors (heating, plumbing and electric separate). Architect taking bids due September 13th.

Shedaker School (add.), Burlington, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton. Owners, Burlington Board of Education, care of architect. Brick, 1 story, 48x60 feet, shingle roof, concrete floors (heating, plumbing and electric separate). Architect taking bids due September 13th.

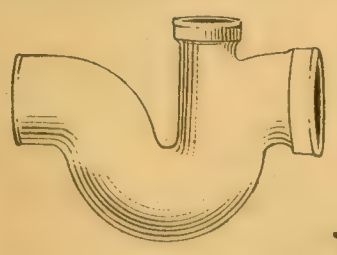
Heating and Ventilating, Garden Lake and Clementon Heights, N. J. Architect, Thomas Stephen, Temple Building, Camden, N. J. Owners, Board of Education of Clementon Township, George W. Mayberry, Clerk, Lindenwold, N. J. Installation of heating and ventilating in Garden Lake and Clementon Heights Schools. Certified check 10 per cent. Bond. Owners taking bids on each school separately, due September 8th at 8 P. M. (Daylight Saving Time).

Store (alts.), Bridgeton, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owner, P. Rovner, 17 North Laurel street, Philadelphia. Underpinning, waterproofing, mill work, store in basement, plate glass, metal lath (expanded). Architect will be ready for bids in a few days.

Doctors' Residences, State Village for Epileptics, Skillman, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Low bidders: C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., $33,800. Plumbing, J. T. Evans, Wilkes-Barre, Pa. Heating, Trenton Plumbing & Heating Co., Trenton, N. J. Electric, Jackson Electric Co., Trenton, N. J.

School, Labor Tract, Hamilton Township, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Hamilton Township School Board, W. A. Robinson, District Clerk, Greenwood School, Trenton, N. J. Brick, steel, 2 stories and basement, 146x128 feet, slag roof, maple floors.

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Low bidders: Anthony Tucci, 449 Hamilton avenue, Trenton, N. J.

Bettlewood School, Cedar and Johnson streets, Haddon Township, N. J. **Gloucester Heights School,** Gloucester Height, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Haddon Township, Camden County, N. J. Low bidders: Bettlewood School, M. C. Pennell, Merchantville, N. J., $59,000; George Shaner & Son, Palmyra, N. J., $63,298. Gloucester Heights, M. C. Pennell, Merchantville, $27,400; S. C. Slocum, Westmont, N. J., $27,603; Bennett-McLaughlin, 3434 Sansom street, Philadelphia, $28,300.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J.

Widening of fill on Route 4, Sec. 7B, Mullica River Section, from Chestnut Neck to New Gretna in Counties of Atlantic and Burlington. Excavation, borrow, gravel surface, sod retaining walls.

Construction Route 16, Sec. 5B, South Bridge street, Somerville, in Somerset County. Excavation, reinforced concrete pavement. Deposit $10. Certified check 10 per cent. Owners taking bids due September 20th at 11 A. M. (Standard Time).

Paving, Camden, N. J. Owners, Purchasing Agent, H. P. Pelouze, Room 6, City Hall, Camden, N. J. Owners taking bids due September 13th, 11 A. M. Certified check 5 per cent. 28,460 square yard bituminous surface, 8,800 square yards scarifying and regrading, 21,000 square yards surface clearance, 1,400 tons patching mixture, 135 tons 2½-inch trap rock, 85 tons stone screening.

Sewer, Exterior Borough of Westville, N. J. Architect, Remington and Vosbury, 509 Copper street, Camden, N. J. Owner, Borough of Westville, J. F. Davis, Borough Hall, Westville, N. J. Approximately 3996 lineal feet of 5 inch, 8 inch, 10 inch T. C. pipe and C. I. pipe sewer. 17 manholes and appurtenances. Deposit $5.00. Refund $3.00. Certified check 5% of bids. Owner taking bids due Sept. 14th at 8 P. M. (D. S. T.)

Nurses' Home, N. J. State Hospital for the Insane, Trenton, N. J. Owner, Division of Architect, State of New Jersey, Trenton, N. J. Owner, Department of Inst. and Agencies, Trenton, N. J. Brick and steel, 2½ stories and basement, 100x37 feet, (plumbing, heating, electric, separate), slate roof, cement and pine floors, bond, ornamental iron work. Owner taking bids due Sept. 9th.

Residences (2) 3291 Pelham Place, Camden, N. J., $9600. Architect, private plans. Owner, Edward Christopherson, 603 N. 32nd street, Camden, N. J. Frame, 2 stories, 15x37 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

New Jersey Contracts Awarded

Factory, Sixth and Mechanic streets, Camden, N. J. Architect, J. C. Weiss, 175 Fifth avenue, New York City. Owners, American Cigar Co., 111 Fifth avenue, New York. Brick, steel, concrete, 1 story and basement, 160x102 feet (plumbing, heating, electric separate bids), slag roof, cement and maple floors, elevators, rolled steel sash, kalamein doors, waterproofinfig, ornamental iron work. Contract awarded A. Raymond Raff Cont. Co., 1635 Thompson street, Philadelphia.

School, Berlin, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Berlin School Board, W. N. Haynes, secretary, Berlin, N. J. Brick, 2 stories, 4 rooms, built-up roof, concrete floors, safety treads, roof ventilators, waterproofing, metal lath. Contract awarded to Emil Weiler, Egg Harbor, N. J., $27,937. Plumbing, John J. Donahue, Merchantville, N. J., $2,390. Heating, Harry Knecht, West Collingswood, N. J., $4,660. Electric, Scutt Electric Co., 218 Cooper St., Camden, N. J., $488.

School, West Berlin, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Berlin School Board, W. N. Haynes, secretary, Berlin, N. J. Brick, 2 stories, 4 rooms, built-up roof, concrete floors, safety treads, roof ventilators, waterproofing, metal lath. Contract awarded to Watson & Schleinkofer, Berlin, N. J., $26,900. Plumbing, John J. Donahue, Merchantville, N. J., $2,390. Heating, Harry Knecht, West Collingswood, N. J., $4,666. Electric, Scutt Electric Co., 218 Cooper street, Camden, N. J., $438.

School (add.), Vincentown, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Southampton Township School Board, H. S. Stackhouse, Vincentown, N. J. Brick, steel, 1 story, slate roof, maple floors (heating and electrical work separate). Contract awarded to William C. Cook, Mt. Holly, N. J., $26,333. Heating to Harry Knecht, West Collingswood, N. J., $3,428. Electric to James Anderson, Mt. Holly, N. J., $360.

Building (Camden Gas Works), Front and Chestnut streets, Camden, N. J. Architect, R. J. Pigott, 800 Park Place, Newark, N. J. Owners, Public Service Electric & Gas Co., Park Place, Newark, N. J. Brick, concrete, steel, 2 stories and basement, 63x98 feet, slag roof, cement floors, electric light, rolled steel sash, hollow metal doors, ornamental iron work, bond. Contract awarded H. John Homan Co., Eighteenth and Cherry streets, Philadelphia.

Stores (5) and Garage (alts. and add.), South Carolina avenue, Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owners, Saul Brothers, New York and Pacific avenues, Atlantic City, N. J. Reinforced concrete, steel, 4 stories, 100x165 feet, slag roof, concrete floors, hollow tile, elevators, waterproofing and dampproofing, iron stairs, fire doors, steel sash, tile work, metal lath, electric light. Contract awarded to W. Beaumont, 1 South Tennessee avenue, Atlantic City, N. J.

Factory and Store, 1490 Haddon avenue, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Heake & Son, care of architect. Brick, steel, concrete block, 2 stories, 40x100 feet, slag roof, pine floors, electric light, roof ventilators. Contract awarded to Crown Const. Co., Twenty-seventh and Westfield avenue, Camden, N. J.

Residence (add. and alts.), 552 South Fourth street, Camden, N. J., $3,300. Architect, private plans. Owner, Louis Spirozzi, on premises. Brick, 2 stories, 14x18 feet, slag roof, general alterations. Contract awarded to Ernest Ferrozzi, 329 Clinton street, Camden, N. J.

Residence (add.), 265 Division street, Camden, N. J., $2,400. Architect, private plans. Owner, Gruzio Vigiano, 265 Division street, Camden, N. J. Brick, 2 stories, 13 feet 10 inches x 31 feet, slag roof, pine floors. Contract awarded to Tony Morabito, 810 South Third street, Camden, N. J.

Residences (2), Trenton, N. J., $10,000. Architect, private plans. Owner, H. W. Cook, Trenton, N. J. Brick, frame, 2½ stories, 16x60 feet, shingle roof, pine floors, hot water heat, electric light. Contract awarded to John Taub, 627 Greenwood avenue, Trenton, N. J.

Residences (2), Trenton, N. J., $9,000. Architect, private plans. Owners, Trenton Realty Co., 1300 East Broad street, Trenton,

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N. J. Brick, 2½ stories, 14x40 feet, slate roof, pine floors, electric light. Contract awarded to A. Geiger, 503 Dayton street, Trenton, N. J.

Store and Apartment, Trenton, N. J., $10,100. Architect, private plans. Owner, Colergeo Plumeri, 39 Paul street, Trenton, N. J. Brick, frame, 2½ stories, 24x59 feet, slate roof, pine floors. Contract awarded to Dinola & Perrica, 1049 Brunswick street, Trenton.

Laundry Building, Brunswick avenue, Trenton, N. J., $21,430. Owners, Blakely Laundry Co., 156 Brunswick avenue, Trenton, N. J. Brick, steel, 2 stories, 94x86 feet, slag roof, electric light. Contract awarded to J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J.

Garage, 2027 Carman street, Camden, N. J., $10,000. Architect, private plans. Owner, Barton S. Muir, 2008 Federal street, Camden, N. J. Block, 1 story, 90x94 feet, slag roof, cement floors, electric work. Contract awarded to Charles Coe, Merchantville, N. J.

Factory (add.), 1222 Kaighn avenue, Camden, N. J., $5,000. Architect, private plans. Owners, F. A. Vieser & Son, Inc., on premises. Brick, 1 story add., 20x40 feet, concrete roof. Contract awarded to Hensgen Brothers, Inc., 1140 Mechanic street, Camden, N. J.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Trenton, N. J.

Route 4, Sec. 3B, widening, South Amboy, Middlesex County. Contract awarded to C. H. Winans, Elizabeth, N. J., $5,284.10.

Construction Route 12, Sec. 8, Passaic River Bridge at Pine Brook to Fairfield, Essex County. Contract awarded to P. Cammillo, Westfield, N. J., $179,969.87.

Building, Foot of Jefferson St., Camden, N. J. $10,000. Architect, Henry Boettcher, Lancaster, Pa. Owners, Armstrong Cork Co., Jefferson Street, Camden, N. J. Brick, and block, 2 stories, 34x30 feet, slag roof, steam heat. Contract awarded to Charles Waddell, Woodlynne, N. J.

Residences (2), 550-52 North Thirty-fourth street, Camden, N. J. $9.000 Architect, Edwards and Green, 548 Federal St., Camden, N. J. Owners, E. Evantash, 1427 Ormand Street, Camden, N. J. Frame, 2 stories, 15x52 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Henry H. Wilson, 800 Hunter Street, Gloucester, N. J.

Store and Residence (add.), 1901 Fillmore street, Camden, N. J., $3100. Architect, private plans. Owner, John Blasiola, on premises. Brick, 2 stories additional, 18x14 feet, slag roof. Contract awarded to Richartz & Furner, 1838 Fillmore street, Camden, N. J.

Residence (add.), 1230 Thurman Street, Camden, N. J., $3,000. Architect, private plans. Owner, Ignatus Ornaf, 1230 Thurman Street, Camden, N. J. Brick, 1 story addition, 16x25 feet, slag roof. Contract awarded to B. J. Wilinski, 1213 Mt. Ephraim Ave., Camden, N. J.

Miscellaneous Construction News

Residence, Middleton, R. I. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owner, Edward C. Knight, Middleton, Rhode Island. Stone, 2½ stories, slate roof, oak and pine floors, plumbing, ornamental iron work, hot water heat, electric light, tile and marble work, bond, ornamental iron work. Held up until spring, 1927.

Bungalow, Luray, Va. Engineers, Progressive Engr. & Const. Co., 5555 Germantown avenue, Philadelphia. Owner, C. O. Herson, care of engineers. Stone, 1½ stories, 32x58 feet, variegated green slate roof, hardwood floors, hot water heat, electric light, tile work, weather stripping. Engineers taking sub-bids due as soon as possible.

Road Work, Delaware. Owners, State Highway Departmene, Dover, Del.

Contract 69, Sec. A, Harrington-Mastens Corner; Sec. B, Big Ash-Warren's School; 5.78 miles. Lowest bidders: Field, Barker & Underwood, Commercial Trust Building, Philadelphia, $41,743.

Contract 70, Elkton road-Pleasant Valley School, 1.49 miles. Low bidders: Sutton Const. Co., Philadelphia, $15,699.20.

Contract 71, Cheswold-Smyrna (widening), 4.84 miles. Low bidder: W. W. Truitt, Lincoln City, Del., $43,154.

Miscellaneous Contracts Awarded

Residence and Garage, Westover road, near Kennett Turnpike, Wilmington, Del. Architect, W. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Charles L. Candee, Wilmington, Del. Stone, brick, steel, 2½ stories and basement, 30x140 feet, slate and tile roof, oak, pine floors, plumbing, electric light, metal lath, rolled steel sash, bond, ornamental iron work (heating, oak floors reserved). Contract awarded William Francis, Wilmington, Del.

(Continued from page 568)

The more important properties of concrete units are discussed and some of the advantages of their use in masonry building construction are set forth. Concrete block, tile, and brick have been defined and the recommendations for the standardization of sizes of the several types of units to avoid waste are given. The recommended standard sizes adopted are given as well as the large number of sizes in present use. This comparison shows that by maintaining definite standards of size for the units a large saving will result in an outlay for machinery, molds, and pallets, as well as the stock to be carried in yards.

Various materials widely used in the manufacture of concrete products are described in detail. The questions of proper size and quality of both coarse and fine aggregates are discussed and the use of admixtures, facing materials, and coloring processes are outlined. The need of careful proportioning, the proper time of mixing, the methods of molding, and the several means of curing are discussed at some length. The requirements for concrete units are dealt with from the structural, architectural, and fire resistant viewpoints. The methods for conducting tests of concrete products and the proper interpretation of data from test reports are outlined.

Factors affecting the financing of a concrete products plant are considered from an economic standpoint and suggestions are made to prospective investors to investigate fully all local conditions

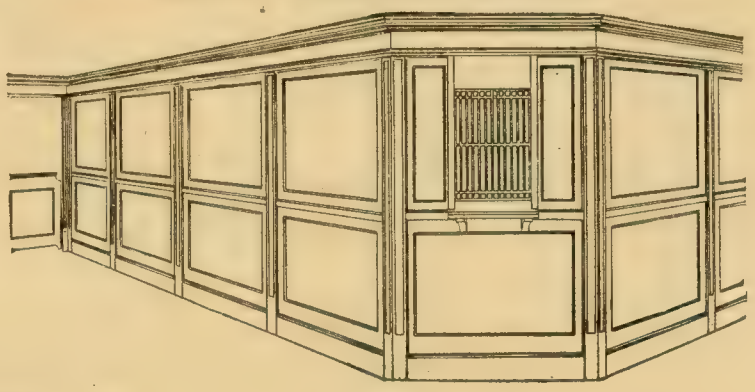
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which may affect the life and successful operation of a plant.

The circular proper is followed by a bibliography of books, technical papers, and periodicals dealing with various phases of the manufacture of these units which will be of particular interest to those contemplating entering this line of work. Several specifications are also given from the standards of the American Society for Testing Materials governing the quality of aggregates and the method of testing, together with the American Concrete Institute specifications for concrete block, tile and brick.

Those desiring copies of this paper should write to the Superintendent of Documents, Government Printing Office, Washington, D. C., for Circular No. 304 of the Bureau of Standards. The price is 20 cents.

Thousands of people have inspected the four prize winning demonstration houses built in four of the large market centers of the United States by the Lehigh Portland Cement Company; and building supply dealers and concrete products manufacturers throughout the country are applauding this elaborate campaign inaugurated to stimulate their business and to sell concrete masonry construction to the public.

The Lehigh Portland Cement Company last fall conducted a national architectural competition offering more than $4,000 in prizes for the best designs of small houses of concrete masonry construction. A distinguished Jury of Awards selected 28 plans from the hundreds that were submitted by prominent architects from coast to coast, and four of these prize winning designs have been built, furnished, equipped and opened to the public in New York City, Chicago, Kansas City and Birmingham.

The Lehigh Company set out to accomplish four things in this campaign and these four things have come to pass. They desired first to render a real service to dealers by increasing the sale of all their materials, lumber, sand, and roofing materials as well as cement and concrete products. This was planned with the full realization that if the sale of lumber and sand was stimulated for home building purposes, the sale of cement and concrete products would equally rise. This in turn would benefit the concrete products manufacturer. Second, to enlist the cooperation of the architectural talent of the country, through the national small house competition, to the end that there would be available expert small house plans of masonry construction for the use of the home building public. A second object of this phase of the undertaking was to impress on the public the necessity of competent architectural supervision of the details of residence construction. Third, to secure new dealer co-operation, and fourth, to demonstrate to architects, builders and the public, through the building of the four houses, the possibilities and practicability of the use of concrete masonry construction. The campaign has just closed and it can be said that all four of these objectives have been accomplished.

A great interest in masonry construction in the home building field has been aroused in the four demonstration cities and in many other cities throughout the country where the Lehigh prize winning designs are being built by local dealers and Realtor-Builders individually or in co-operation with other interests. For dealers in cities far removed from the demonstration cities, the Lehigh Company has prepared a detailed procedure including various dealer "helps" to assist in putting over such campaigns.

More than 60,000 people stood in line in New York City (Bronxville), Chicago, Birmingham and Kansas City, waiting to go through the demonstration houses and these people, according to the Lehigh officials, were the best kind of prospects for all the materials used in the houses. A careful analysis was made of the attendance in all four cities by the Lehigh Company that makes the interesting statement in a report covering the attendance, that there is a trend on the part of the public to study the actual construction of homes. This is a good omen for manufacturers of quality materials who have heretofore been distressed at the apparent lack of interest of the home buying and building public in anything but the exterior appearance or the view from the dining room window. It is also interesting that this attitude on the part of the public is evident in all four cities representing distinct and different parts of the country, the east, the north middle west, the south middle west and the south.

"Visitors to the Lehigh homes were not curiosity seekers," states the Lehigh report. "On the day of the opening of the Chicago house, rain fell throughout the day and 1800 people journeyed to this Chicago suburb to inspect the house from the hours of one p. m. and nine p. m. There was apparently a desire on the part of visitors to know more about materials entering into home construction.

These conclusions were based in part on the great interest of visitors in parts of the houses that were more or less technical to the layman. In all four of the houses, a section of the wall was cut out showing the construction, the use of metal lath and the proper application of the exterior and interior plaster. In each house in a glassed-in compartment cut out on the outside wall was placed an electric heater generating a heat of 178 degrees. A thermometer, placed in this cut out section directly against the concrete block registered 76 degrees, demonstrating in a graphic way that the wall did not permit the transfer of temperature. On the outside surface of the same wall in each house, a stream of water was kept playing and the reverse side was shown to the visitors to be perfectly dry, indicating to them that water does not penetrate this type of construction. A thorough check of the attendance showed that these walls were closely examined by visitors in all four cities.

Full page, double spread, color advertisements were used prior to and during the building of these houses by the Lehigh Portland Cement Company in national publications, calling attention to the construction of these prize winning designs and identifying Lehigh local dealers with the Lehigh Blue and White sign as reputable merchants in all types of materials. The national advertising carried coupons to be clipped for a booklet published by the Lehigh Company containing the 28 prize winning designs, which, according to the Jury of Awards, are the best small home designs ever assembled. More than 30,000 requests were received in three months time for this booklet and these names were forwarded to local dealers. Good live prospect names. In the four cities where the demonstration houses were built, the local newspapers

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MARBLE
MOSAIC
CERAMICS
Camden Tile Co.
1484 Bradley Avenue
CAMDEN, N. J.
BELL PHONE
CAMDEN 3827 W

GENERAL INSURANCE
SMITH-AUSTERMUHL CO.
5th and Market Streets, Camden, N. J.
BELL PHONE, CAMDEN 3210 KEYSTONE, CAMDEN 3147
SURETY BONDS

co-operated and carried the undertaking as a news feature, giving publicity to the local dealers.

Private showings were held in each city for select lists of contractors, builders, dealers and concrete products manufacturers a week before the formal opening of the houses and this attendance was also good. Salesmen in each city were given an intensive training before the opening of the houses so they were prepared to explain the features of the construction of each house and to answer the many and varied questions of visitors. A list of more than 100 possible questions and answers was made up by the Lehigh Company and given to salesmen to study and these questions covered all phases of construction likely to interest prospective home-builders.

The first prize award for a six room concrete masonry house designed by Angus McD. McSweeney, of California, was built in Bronxville, New York City, and in a reversed position in Kansas City. The New York contract was awarded to J. H. Stoltz, of Bronxville, Laylord Lyon was the supervising architect and R. W. Stofflet, and F. A. Blatte, of the Lehigh Company, the supervising engineers.

The second prize six room house, won by H. A. Surman, Detroit Architect, was built in Winnetka, a suburb of Chicago, Ill. This contract was awarded to Paul A. P. Mueller & Son, and Granger and Bollenbacher of Chicago were the supervising architects, H. B. Emerson was the supervising engineer.

The first prize five-room bungalow designed by John Floyd Yewell and Harry Starr, New York architects, was built in Birmingham by E. R. Maynord. George P. Turner, was the supervising architect and W. B. Clark the supervising engineer.

The Kansas City house was built by Joseph F. Gier; Buckley and Van Brunt were the supervising architects and L. T. Fossum the supervising engineer.

Further extending the ramifications of this program, the Lehigh Portland Cement Company is now preparing for fall publications, an illustrated book to be titled "Building Better Homes," said to be the first publication of its kind covering detailed home building data in simple language. This book will contain an accurate account of each step in the construction of each of these four prize demonstration homes, costs data, photographs of construction details, and other real information as to how to proceed in building. This book is being written in a way that will be interesting to architects, contractors, concrete products manufacturers and the general public. It will also contain a comparison of the procedure followed in building the four Lehigh demonstration houses and it will be distributed through national advertising and through local dealers.

Here is an organization expending thousands of dollars in an educational undertaking that has benefited other manufacturers in the home building field and at the same time earned enormous prestige for themselves.

SOME OBSERVATIONS ON WAGE LEVELS

Back in 1899 the average earnings of the American worker amounted to $426 per year, according to a statement issued by the National Association of Building Trades Employers. Twenty-four years later or in 1923, the figure had increased to $1254 a year or nearly three times as much. During the same period of time the cost of living rose to about twice its former level. The worker today, however is about 50 per cent. better off in "real wages" than the worker of 25 years ago.

"Organized labor has repeatedly tried to claim all the credit for bringing this condition about," the statement continues. "While it is true that the labor movement has been partly responsible for the change, the greater share of credit must go to the fact that increased production made possible by more mechanical power per worker makes high wages possible.

"It is perfectly obvious that increasing production is the only possible means for bettering the position of the wage earners. It is to be regretted, however, that this principle is utterly disregarded by such a vast number of workers in industry.

"It does not take any great amount of reasoning ability to arrive at the conclusion that a horizontal reduction of production must necessarily carry with it an equivalent increase in production cost. If wage rates remained the same the increased cost of living brought about by low production would bring the 'real' wage figure down in exact proportion to the decrease in work done.

"We are rapidly approaching the time in this country when mass production made possible by the use of labor saving machinery will make it possible for all the needs of the human race to be produced in less working time than is now required. The only way to hasten that time is to combine improvements with hard work. That will bring down the cost of commodities thus further increasing the 'real' wage of the workers—the only kind of a wage increase that is of lasting benefit to every one."—*The Associated Contractor.*

HOW MUCH FOR HOUSE RENT

A study of housing somewhat new and still pioneering in settled tests and guides, by Charles T. Moffet, shows that the English spend approximately one-sixth of the family income for unheated quarters; Americans spend approximately one-fifth. For heated living quarters the American ratio to family income is approximately one-fourth. Out of this study we reach the ground that a family should not spend beyond 20 per cent. of income for unheated quarters; 25 per cent. for heated. Should they be willing to accept less costly quarters, their savings are likely to be more than the average and their gain in wealth more consistent and rapid. It follows, then, that a family with an income of $1,500 per year may reasonably pay a rental in unheated quarters of $300; $2,000 income, $400 rent; $3,000 income, $600 rent; $4,000 income, $800 rent; $5,000 income, $1,000 rent; $10,000 income, $2,000 rent. From this schedule it is not difficult to formulate the cost of a home that one with any definite income may properly buy and maintain. At the rather steady going rate of money interest upon real estate of 6 per cent. and a 2 per cent. depreciation reserve (which may be used for amortization of incumbrances), we may say $300 annually may be capitalized at 8 per cent. into a $3,750 home. Likewise a family havng an income of $10,000 a year may capitalize its $2,000 annual rent into a $25,000 home.—*Record and Guide.*

America stands supreme in the development and use of advertising, and advertising is the seed which by implanting desire produces the fruit of social advancement. Education promotes efficiency and efficiency in turn makes possible higher earning power, higher purchasing power and improved living conditions.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

Fifty years ago the grocer set out a keg of mackerel and a box of kindling wood, and sat down to wait for customers. Today he carries street-car and newspaper advertising and dresses his windows as smartly as the department store. If it didn't pay he'd still be sitting behind the stove waiting for customers with a mackerel keg out front doing service for a sign.

You can't expect to do your "bit" of this busy world's business unless you enlist in the advertising ranks.

Reference Directory for Architects, Builders and Owners

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 37
September 15, 1926

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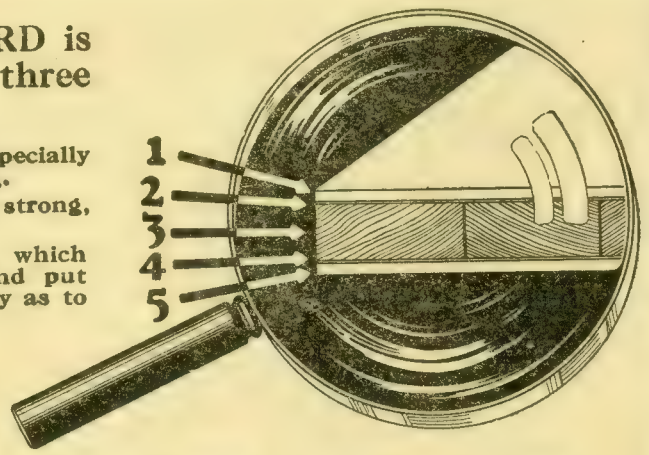
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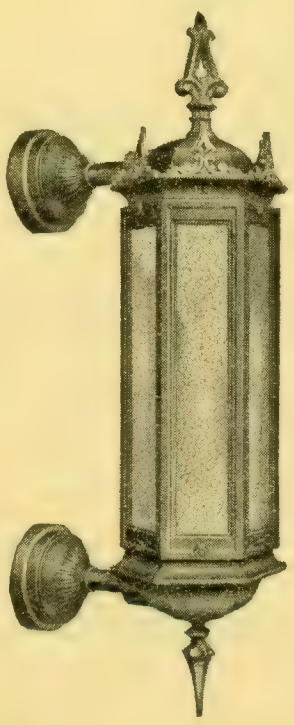
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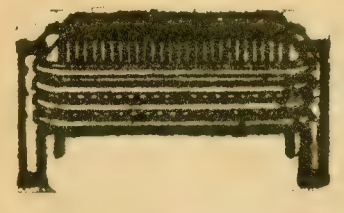
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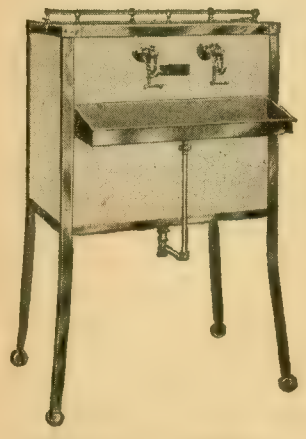
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

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Number 37

PHILADELPHIA
September 15, 1926

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As The Editor Sees It

SMALL HOME BUILDERS SHOULD EMPLOY AN ARCHITECT

Instead of increasing the cost of the house the trained architect not only saves one money but insures a better structure.

Architecture, from the standpoint of general public appreciation, stands mighty close to the bottom of the list of the professions. The rank and file of American small home builders have not yet come to understand just how important a part the architect plays in the construction scheme. The chief trouble is that they haven't rubbed elbows with him. The building contractor has been serving as architect for the small home builder altogether too long. He has rather effectually replaced the architect who, by a large percentage of the people, is regarded as an unnecessary luxury, the affectation of those who always insist upon being impressive, or the fad of the new or idle rich.

The real practical service of the architect, the assurance of pleasing design and convenient arrangement of the home, the requirement of specified materials and their proper application, the inspection and guarantee of good construction, the certainty that all will be required to be done according to contract and the specifications, all these things are beyond the ken of the average prospective builder. These are things which he has been used to seeing left in the hands of the contractor himself and entirely at the mercy of the contractor's honesty.

Another feature which has served to keep the architect and the prospective home owner from meeting, save on very rare occasions, is the constantly increasing practice of buying homes ready built rather than assuming the responsibility of building them. Speculative builders have become surpassingly active within the last few years the country over. Not always are they as satisfactory as they are numerous. A species of so-called jerry builder has developed in their midst; a builder who cheats in everything and who has cast suspicion upon them all.

Usually the jerry builder is his own architect. Too many of the speculative builders imitate him. The result is a growing doubt in the public mind about the value of the ready-built house. How disastrous this suspicion may become to the speculative builder as a class, and how beneficial ultimately to the architect through increasing his clientele, is a question open to conjecture. Unquestionably it is having its effect in increasing the popular interest in the architect and his mission.

More or less constant publication of house plans in the newspapers is also slowly bringing the attention of the public in general to the fact that there is really something worth while in the planning of the home. The old hit and miss home, built partly at one time and partly at another, with additions here and there to meet some temporary requirement, is swiftly passing out of the picture. People are coming to demand more of the conveniences and gradually are recognizing the fact that the architect's business is, to some degree, seeing that homes are provided with them.

So, everything considered, things are looking up a little for the architect, but they are yet far from being what they should in the small home field. And after all that is where the architect can really be of the greatest service, where he can be most valuable, for ordinarily the small home builder is the man who should get the best value for his money. He, of them all, can less afford not to get it, for usually he is putting into his

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home all that he can rake, scrape or borrow, and mortgaging his future for more years than he cares to consider.

In almost every community there is an architect capable of handling the small home problem for his fellows without its making serious inroads on his more important work. Usually he is willing to do this and rarely will the small home builder find his employment a burden beyond his means. Certainly he will seldom have reason to regret the expenditure when he comes to look over the finished product and to compare it with some of the jerry-built homes in his neighborhood. The employment of an architect is always a good investment; it is just another kind of insurance upon which one realizes quickly.

An impression seems to be prevalent among a lot of people that the employment of an architect necessarily means a substantial increase in the cost of the home, as the architect will want to inject a lot of gingerbread trimmings and innovations in arrangement, all of which will be expensive. This is altogether an erroneous idea. The architect will carry out your ideas in planning the home; he will first of all be careful to suit you. Possibly he may offer suggestions as you outline what you desire, but they will be for the improvement of your general plan. Primarily his idea always is to give you what you want at the least possible cost.

Small home builders make a mistake in not having an architect supervise their housebuilding. The architects alone have been responsible for the tremendous improvement in the small home in recent years.—*Building Economy.*

REDUCING ACCIDENTS ON CONSTRUCTION OPERATIONS

LEO D. WOEDTKE, *Safety Director, Fred T. Ley & Co., Inc., and President of Springfield Safety Council*

The Construction Industry contributes from 15 to 20 per cent. of all industrial accidents, according to the statistics of both the Pennsylvania and the New York State Department of Labor. This is indeed a black eye and unworthy of the keen and courageous men who constitute the oldest and second largest industry of the world, taking second place only to agriculture and farming.

It is a safe prediction that if contractors, as a class, do not get busy voluntarily and do some genuine and consistent safety work and spend time and money on real effort, they will be forced to do so in the not distant future in an unpleasant and costly way, by legislation and labor unions, plus public sentiment.

Commissioner Hamilton, of the New York State Department of Labor recently stated in a public address, that the time was fast approaching when the Commonwealth would be obliged to require more genuine Safety Work on the part of the contractor. On this same platform, a representative of the New York State Building Trades advised that they had already been obliged to use their economic power and call men off of several jobs because of unsafe conditions not remedied upon complaint to the contractor.

The pity of all this is that the real public-spirited and progressive contractor who is doing his bit, will have to suffer along with the "Don't give a damn" type.

That general contracting, in its many branches, is considered as a high hazard by insurance companies is attested by the fact that higher rates are charged for construction work than for any other industry, and the contractor pays a very large percentage of his payroll for insurance premium. For this he has no one to blame but himself.

With the advent of Workmen's Compensation Acts and the development of Experience Rating Plans, the contractor practically makes his own rates, in that the regular manual rates for his classes of work are either increased through bad experience, or decreased through good experience.

Contractors who have maintained a Safety Department and carried on intensive and consistent safety work, have found that in addition to saving very large sums of money in insurance costs, they have also reduced labor turnover and increased efficiency through keeping trained men on important work without loss of time, and have also secured the profound respect of labor organizations, employes, their clients, and the public.

The contractor's safety program must necessarily begin at the very top, and once the chief executive is sold on this proposition he should delegate some one person in his employ to head up or direct the Safety and Accident Prevention work in his organization and right here let me emphasize strongly that it is not necessary to employ an additional man to do this work, nor is it necessary that the employe selected be a safety engineer,

(Continued on Page 592)

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Home for Incurables, Conshohocken and Belmont avenues, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Philadelphia Home for Incurables, Forty-eighth and Woodland avenue, Philadelphia. Architect selected. Plans in progress.

Residence (alts. and add.), 319 South Eighteenth street, Philadelphia. Architect, Ralph L. Goldberg, 266 South Fifteenth street, Philadelphia. Owner, Dr. N. W. Winkelman, on premises. Plans in progress.

Banking Building (alts. and add.), 1428 Walnut street, Philadelphia. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Charles D. Barney & Co., on premises. Brick, reinforced concrete, cut stone, limestone, steel, 2 stories and basement, 47x30 feet, slag roof, oak and cement floors, vapor heat, electric light, metal lath, tile and marble work, rolled steel sash, copper skylights, kalamein doors, ornamental iron work, shoring, painting and glazing, plumbing, shoring, demolition, stone work, bronze work, rubber and linoleum floors. Architect taking bids due September 16th.

Alterations, 611 Vine street, Philadelphia. Architects, Bureau of Architects of Methodist Episcopal Church, Seventeenth and Arch streets, Philadelphia. Owners, Deaconess Home, on premises. Carpentry and mill work, plastering, painting and glazing, wood partitions. Architects taking bids due September 16th.

Residence, Fifty-second and Wynnefield avenue, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owner, Louis Kapner, care of architect. Stone, 2½ stories and basement, 30x55 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Architect taking bids due as soon as possible.

Stores (alts.), Fifth and Market streets, Philadelphia. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Carpentry and mill work, shoring, cement work, hardware, brick, electric work. Architect taking bids due as soon as possible.

Contract No. 165, paving, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Owners taking bids due September 17th, 11 A. M. (Standard Time). Deposit, $10, refunded. Certified check, 5 per cent. of bid. Paving Broad street, Lycoming avenue to Belfield avenue, Philadelphia.

Junior High School, Sixteenth and Wharton streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, cut stone, reinforced concrete, 4 stories and basement, 136x245 feet (plumbing, heating, electric separate), slag promenade, tile roof, cement and maple floors, hollo wtile, safety treads, waterproofing and dampproofing, rolled steel sash and doors, hollow metal doors, bond, floor hardener, iron stairs, ornamental iron work, incinerator, granite, steel partitions. Low bidders: Nelson Pedley Const. Co., Corn Exchange Building, Philadelphia, $961,245; William Langhorne, 10 South Eighteenth street, Philadelphia, $990,608. Electric, Walker & Kepler, 531 Chestnut street, Philadelphia, $67,942. Heating, S. Faith & Co., 2427 Pennsylvania avenue, Philadelphia, $98,634. Plumbing, F. Wackenhut, 2416 Frankford avenue, $44,635. Ventilating, Gerbrick & Kauffman, 44 North Second street, Philadelphia, $7,859.

Residences (33), North side Elmwood avenue, West of Sixtieth street, $47,800. Architect, Charles S. Parker, 5018 Schuyler street, Philadelphia. Owners, Zerby & Holloway, 4717 North Broad street, Philadelphia. Brick, 2 stories, 16x32 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (13), South side Wellington street, East of Crispin street, $57,800. Architect, private plans. Owner, Francis Blatz, Leon and Wellington streets, Philadelphia. Brick, 2 stories, 16x29 feet, 12x8 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Apartment, Widener Place, Philadelphia, $25,000. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, S. S. Brenner, Southwest Corner Ogontz and Champlost avenue. Brick, 4 stories, 35x80 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Apartment House, South side Champlost avenue, West of Ogontz avenue, $25,000. Architect, Karl F. Otto, 1828 Arch street, Philadelphia. Owner, S. S. Brenner, Ogontz avenue and Champlost avenue, Philadelphia. Brick, 3 stories, 35x80 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Boiler House, South side Woodbine avenue, near Bryn Mawr avenue, $25,000. Architect, private plans. Owner, Thomas F. Reilly, Fiftieth and City Line, Philadelphia. Brick, 1 story, 54x51 feet. Permit issued.

Garage, South side Carpenter street, West of Twenty-third street, Philadelphia, $12,000. Architect, private plans. Owner, Edward Haines, 2220 Chestnut street, Philadelphia. Brick, 1 story, 60x160 feet, slag roof, cement floors, electric light. Permit issued.

Building (alts.), 617-27 South Fifty-sixth street, Philadelphia, $10,000. Architect, John Swartley, 5609 Pine street, Philadelphia. Owner, I. W. Massey, 5311 Thomas avenue, Philadelphia. General alterations. Permit issued.

Residence (alts.) and Garage, 1715 Pine street, Philadelphia, $9,000. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, Dr. A. M. Richtman, on premises. General alterations to residence, garage, brick, 1 story, 18x19 feet. Permit issued.

Storage Building, Golf road, South of City avenue, Philadelphia, $8,000. Architect, private plans. Owner, Thomas F. Reilly, Fiftieth and City Line, Philadelphia. Brick, 1 story, 43x83 feet. Permit issued.

Residences (10), Garages (6), 6714-34 and 6733-45 Crittenden street, Philadelphia, $78,000. Owner, John Uber, Stenton and Pleasant avenues, Philadelphia. Brick, 2 stories, 23x39 feet, garages, 1 story, 12x18 feet, slag roof, hardwood, pine and cement floors, hot water heat, electric light. Permit issued.

Residences (2), 505-07 Wellesley avenue, Philadelphia, $20,000. Architect, private plans. Owners, Carson Brothers, 2109 McCallum street, Philadelphia. Stone, 2 stories, 21x32 feet, 14x11 feet, hardwood and pine floors, electric light. Permit issued.

Coal Trestle, East side Lehigh avenue, North of Unity street, $8,700. Architect, private plans. Owners, Reading Co., Twelfth and Market streets, Philadelphia. Permit issued.

Residence, 620 Rector street, Philadelphia, $6,500. Architect, private plans. Owner, M. B. Snyder, 544 Roxborough avenue, Philadelphia. Brick, 2 stories, 19x57 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

Gas Station, Southeast Corner Girard avenue and Hancock street, $6,000. Architect, private plans. Owners, American Oil Co., Widener Building, Philadelphia. Brick, 1 story, 15x9 feet 8 inches. Permit issued.

Building (add.), 2936 E street, Philadelphia, $4,300. Architect, W. Bickley, Willow Grove, Pa. Owner, Katharine Hughes, 3100 Rohrer street, Philadelphia. Brick add., 14x47 feet. Permit issued.

Show Room, Southeast Corner Germantown and Willow Grove aveneus, Philadelphia. Architect, Melvin Grebe, 5 East Highland avenue, Philadelphia. Owner, Cain Hudson, on premises. Brick, 1 story, 29x148 feet, slag roof, cement floors, electric light. Permit issued.

Store (alts.), Northeast Corner Eleventh and Market streets, Philadelphia, $6,000. Architect, private plans. Owners, Frank & Seder, Eleventh and Market streets, Philadelphia. General alterations. Permit issued.

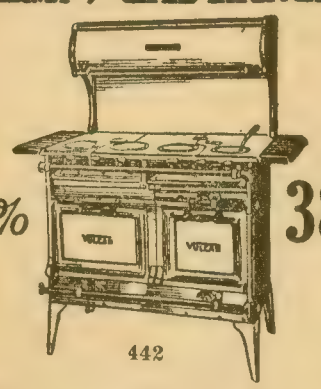
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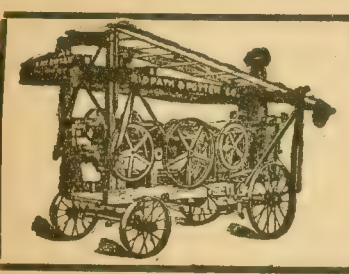
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road to Tenth street, J. F. Nolen & Son, 364 East Penn street, Germantown, $12,510.

Asphalt Paving—Dover, Tasker to Morris street, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $4,264.70. Church street, Tacony to Stiles, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $7,409.81. Neilson, Hunting Park to Bristol, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $5,118.87. Rockland, D to Bingham, Union Pavin gCo., Thirtieth and Locust streets, Philadelphia, $12,011.40.

Asphalt Repaving—Dickinson, Sixth to Seventh, Union Paving Co., Thirtieth and Locust streets, $5,620.35. Moore street, Eleventh to Twelfth, Eastern Asphalt Co., Pennsylvania Building, Philadelphia, $6,092.46.

Redressed Granite Block Repaving—Latimer, Thirty-first to dead end east, C. G. Centrone, Bailey Building, Philadelphia, $2,733.37. Medina, Seventh to Eighth; Sears, Seventh to Eighth, Mazzola & Marano, Inc., 739 South Seventh street, $6,543.50. Second, Snyder to Ritner, Municipal Paving Co., Second and Wingohocking, $9,266.71. Eighteenth, South to Pine, Acchione & Canus, 804 South Twelfth street, $6,502.50. Fifty-second, Haverford to Lancaster, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $46,375.95.

Contract No. 126, Broad Street Subway, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Low bidders: F. J. Boas, 201 North Broad street, Philadelphia, $593,858; O'Neill Co., 127 East Mermaid Lane, Philadelphia, $608,346.

Pennsylvania Railroad Work. Contract No. 37, bids due Sept. 16th; Contract No. 38, bids due Sept. 20th; Contract No. 39, bids due Sept. 20th.

Theatre and Office Building, 1709-15 Locust street, Philadelphia. Owner, care of N. Taube, Eighteenth and Chestnut streets, Philadelphia. Selection of architect will be made in a month. Competitive sketches being prepared.

Contract No. 824, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall, Philadelphia. Furnish and lay small pipe lines in streets to be repaved. Certified check 5% of bids. Owners taking bids, due Sept. 23rd 11 A. M.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garages (4) and Residence (alts.), 321-23 Cherry street, Philadelphia, $2,000. Architect, private plans. Owner, Domenico Loscalzo, 323 Cherry street, Philadelphia. Block Garage, one story, 9 feet 4 inchesx18 feet, slag roof, cement floors, new brick wall on house. Contract awarded to Guiseppi De Medio, 1105 South Fourth street, Camden, N. J.

Residence (add. and alts.), 2022 N. Park avenue, Philadelphia, $5,000. Architect, Edwin L. Rothschild, Bankers' Trust Building, Philadelphia. Owner, Edwin L. Rithschild, Bankers' Trust Building, Philadelphia. Brick, two-story addition, 16x88 feet, general alterations. Contract awarded to Geager & Son, 4657 James street, Frankford, Philadelphia.

Sales and Service Building, Twenty-fifth and Westmoreland streets, Philadelphia. Architects, Carson & Carson, 22 South Fifteenth street, Philadelphia. Owners, American La France Fire Engine Co., on premises. Brick, steel, reinforced concrete, 1 story, 210x100 feet, gypsum slag roof, cement and tile floors, hollow tile, metal weather strip, terra cotta, wire work, ornamental iron work, fire and kalamein doors, rolled steel sash, tile work. Contract awarded Franklin M. Harris Co., 1520 Parrish street, Philadelphia.

Plant (add.), 4901 Stenton avenue, Philadelphia. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Leeds & Northrup, on premises. Brick, reinforced concrete, steel, cut stone, 4 stories and basement, 58x140 feet, slag roof, cement and maple floors, metal floors, metal lath, waterproofing, rolled steel sash, fire doors, iron stairs, ornamental iron work. Contract awarded W. R. Dougherty, 1610 Sansom street, Philadelphia.

Residence, Ardmore avenue, Chestnut Hill, Pa. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owner, C. M. Dowlin, 6800 North Eleventh street, Philadelphia. Stone, 2½ stories, 63x47 feet, shingle roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Contract awarded J. Riley & Son, Forrest avenue, Mt. Airy, Pa.

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Residence (alts.), 523 Westville street, Philadelphia. Architect, private plans. Owner, M. Norman Dubois, care of builder. Electric work ,roofing, hardwood floors, plastering, craftex, painting and glazing, plumbing. Contract awarded Arcade Const. Co., Finance Building, Philadelphia, who are taking subbids.

Manufacturing Building, Northwest Corner Fifty-fifth and Gray's avenue, Philadelphia, $100,000. Architect, private plans. Owners, Yarnall Paint Co., on premises. Brick, steel, 3 stories and basement, steam heat, electric light, rolled steel sash, ornamental iron work, slag roof, cement floors. Contract awarded William Steele & Son, 219 North Broad street, Philadelphia.

Residence and Store, 5026 Germantown avenue, Philadelphia, $20,000. Architect, private plans. Owner, E. Lasensky, 5028 Germantown avenue, Philadelphia. Brick, 2 stories, 20x74 feet ,slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Max Cotler, 1220 North Forty-second street, Philadelphia.

Residences (3), Frontenac and Griffith streets, Philadelphia, $6,000 each. Architect, Joseph Dininger, Oxford pike and Cottman street, Philadelphia. Owner, Frank Smith, 1524 Chestnut street, Philadelphia. Brick, 1½ stories, 24x40 feet, hardwood and pine floors, hot water heat, electri clight. Contract awarded to Victor Dick, 7332 Oxford Pike, Philadelphia.

Residences (2), Ivans road, East of Horner street, Philadelphia, $16,000. Architect, private plans. Owners, A. S. Keely & Co., 4370 Main street, Philadelphia. Frame, 2½ stories, 24x32 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to Walter Rowland, 4403 Dexter street, Philadelphia.

Residences (2), South side Loney street, West of Frontenac, $12,000. Architect, Joseph Diringer, Oxford pike and Cottman street, Philadelphia. Brick, 1½ stories, 24x40 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to Victor Dick, 7332 Oxford pike, Philadelphia.

Residence and Store (add. and alts.), Southeast Corner Thirty-second and Montgomery avenue, Philadelphia, $4,000. Architect, private plans. Owner, M. Savitt, Northwest Corner Ninth and Tasker streets, Philadelphia. Brick, 3 stories add., 6x17 feet, general alterations. Contract awarded to George H. McCurdy, 2125 South Sixty-fifth street, Philadelphia.

Residence, 1318 Unity street, Philadelphia, $5,000. Architect, private plans. Owner, James Bomily, Adams avenue and Leiper street, Philadelphia. Brick, 2 stories, 21x64 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to George H. Thirsk, 4305 Horrocks street, Philadelphia.

Garage and Shop, Fifty-third street, North of Broomall avenue, Philadelphia, $12,000. Architect, private plans. Owner, William Clark, 5000 Kingsessing avenue, Philadelphia. Brick, 2 stories, 50x50 feet, slag roof, cement floors, electric work. Contract awarded to Samuel R. Edge, 5613 Willows avenue, Philadelphia.

Garage, 6224 Cedar avenue, Philadelphia, $3,000. Architect, private plans. Owner, James Earley, 6224 Cedar avenue, Philadelphia. Brick, 1 story, 16x16 feet, slag roof, cement floors. Contract awarded to Fiore Esposito, 2529 Wharton street, Philadelphia.

Pennsylvania Construction News

Residence and Garages (4 pair), Ashbourne and Croyden, Rowland Park, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, R. M. Webb, care of architect. Stone, frame, stucco, 2½ stories, 22x34 feet, 1 story, 10x20 feet, creo-dipt shingle roof, oak, pine and cement floors, hot water heat, electric light, tile and marble work, septic tanks. Plans in progress.

Store and Office (alts.), 7-9-11 South Market street, Harrisburg. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, James McCormick Estate, care of architect. Brick, steel, limestone, composition roof, maple floors, hollow tile, elevators, iron stairs, fire doors, steel sash, tile work, metal lath, electric light. Plans in progress.

High School (add.), Gymnasium and Auditorium, Carlisle, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Carlisle School Board, Thomas Vale, secretary, Carlisle. Brick, 2 stories, built-up roof, maple and composition floors, heating extension, electric light. Plans in progress.

Twin Residences, Hyde Park, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owners, Ernesto & Co., Hyde Park, Pa. Brick, 2 stories, 18x40 feet, tile and tin roof, hardwood floors, hot water heat, electric light, tile work. Owners will build.

Junior High School, Red Lion, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Red Lion School Board, Dr. J. C. Atkins, Red Lion, Pa. Semi-fireproof, 1 story an dbasement, 173x115 feet (plumbing, heating and electric work separate), brick, steel, concret, slag and composition roof, cement and composition floors, roof ventilators, cut stone, steel sash, metal lath, steel window guards. Owners will be ready for bids next week.

Office Building and Garage, Lemoyne, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Supreme Oil Co., Lemoyne, Pa. Brick, steel, 1 story, 60x60 feet, 100x100 feet, slag and slate roof, hardwood and concrete floors, roof ventilators, fire doors, steel skylights and sash, vapor heat, electric light. Architect will be ready for bids in one week.

Building (alts.), 349-51 Rector street, Conshohocken, Pa. Architect, M. B. Bean, Lansdale, Pa. Owner, Martin Misciagna, on premises. Cement block, 2 stories, slag roof, yellow pine floors (heating and plumbing reserved), plastering. Owner taking bids.

Residence and Garage, Meadow Brook, Pa. Architect, Carl A. Ziegler, 1012 Walnut street, Philadelphia. Owner, F. K. Mears, care of architect. Stone, 2½ stories and basement, irregular, 45x28 feet, garage, 27x25 feet, wing 22x20 feet, hot water heating, electric light, metal lath, tile work, ornamental iron work, shsingle roof, oak and pine, cement floors, plumbing, hot water heat, electric light, metal lath, tile work, ornamental iron work. Architect taking bids due September 20th.

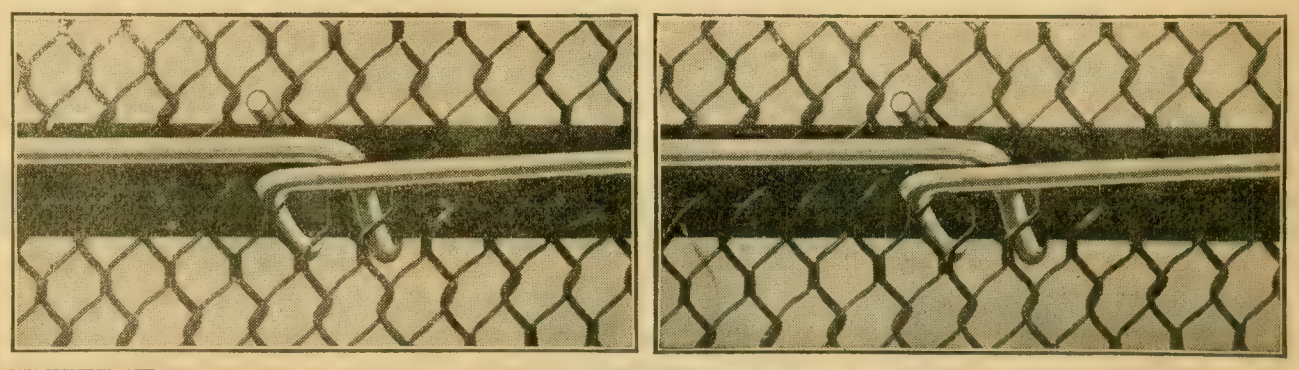
Residence, Williamsport, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, George W. Crooks, Williamsport, Pa. Stone, 2½ stories, 76x35 feet 6 inches, shingle roof, waterproofing, tile and flagstone, terra cotta, reinforced concrete work ,asphalt, pine floors, iron work, metal lath, vapor heat. Architect taking bids due September 17th.

Theatre, Lodge, Stores and Apartments, Mt. Carmel, Pa. Architect, Willis A. Hall, Upper Darby, Pa. Owners, Sons of Veterans, Burnside Post, Mt. Carmel, Pa. Brick, stone, concrete, 1 story and 2 stories, 150x112 feet, hardwood and cement floors, hot water heat, electric light, fire doors. Architect taking bids due September 23rd.

Club House (alts. and add.), Reading, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owners, Reading Sick Beneficial Association, care of architect. Brick, 1 story, 11x56 feet, composition roof, heating extension, electric light, general alterations. Architect taking bids.

Elevator Shaft for Store, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Pomeroy's, Inc., 600

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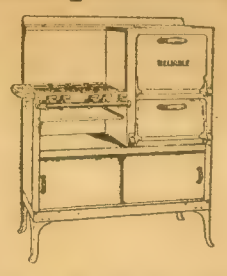
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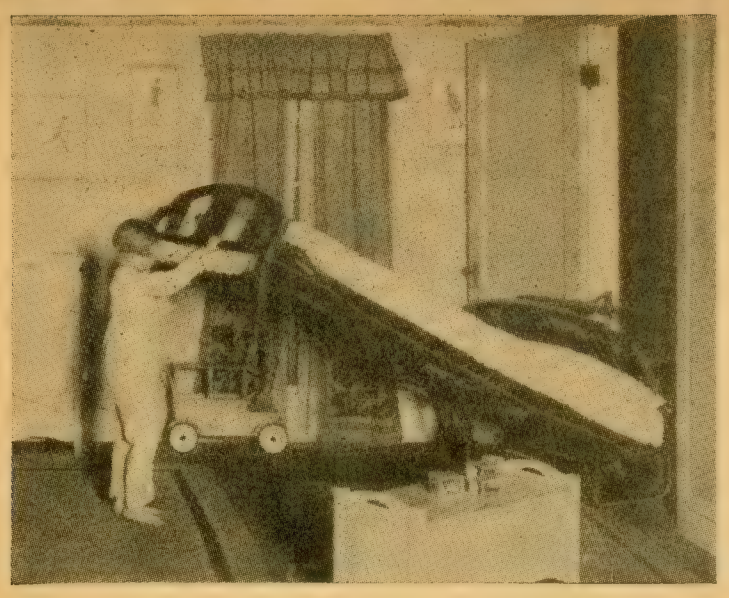
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Garage, Tenth and Spring Garden streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown. Owners, Brotherhood of Railroad Trainmen, Hunsicker Building, Allentown, Pa. Brick, cinder block, concrete, 2 stories, 99x99 feet, built-up roof, concrete floors, waterproofing, cast stone, kalamein doors, steel sash. Architects taking bids due September 20.

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Store (alts.), Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners ,Bloom Furniture Co., 339 South Sixth street, Reading, Pa. Brick, steel, 2 stories, 100x29 feet, slag roof, elevators, copper work, general alterations, plumbing, heating extension, electric work. Oscar Degler, 1041A Walnut street, Reading, Pa., will build.

Y. M. C. A. Building, Lancaster, Pa. Architect, C. Emlen Urban, Woolworth Building, Lancaster, Pa. Owners, Y. M. C. A., care of architect. Fireproof, 4 stories, 69x60 feet, built-up roof, hardwood floors, hollow tile, roof ventilators, ornamental iron, iron stairs, tile and marble, metal lath, electric light. Architect ready for bids.

High School, West York, Pa. Architects, Witman & Royer, 47 East Market street, York, Pa. Owners, West York School Board, West York, Pa. Brick, steel, fireproof, 2 stories and basement, 174x60 feet, composition roof, maple and composition floors, hollow tile, safety treads, roof ventilators, steel sash, metal lath, ornamental iron (heating, plumbing and electric separate). Owners taking bids due September 22nd.

Theatre, Pottsville, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Chamberlain Amusement Co., Pottsville, Pa. Brick, steel, reinforced concrete, hollow tile, steam heat, electric light. Architect taking bids due September 29th.

Grade School, Carlisle, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Carlisle School Board, Thomas Vale, secretary, Carlisle, Pa. Low bidders: H. A. Lackey, Carlisle, Pa., $74,000. Plumbing, Frederick & Co., Carlisle, Pa. Heating, J. H. Bowman, Penbrook, Pa. Electric, A. G. Crunkleton Elec. Co., Greensville, Pa.

Junior High School, Mansfield, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Mansfield School Board, care of architects. Lowest bidder: J. C. Snyder, Selinsgrove, Pa.

Grading, Paving Walks and Drives, Upper Darby, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Delaware County Hospital, care of Dr. T. Clawson Beswick, Stonehurst, Pa. Architect taking bids, due Sept. 16th.

Road Work, Pennsylvania. Owners, Department of Highways of Pennsylvania, Harrisburg, Pa. Owners taking bids, due Sept. 24th at 10 A. M. Plans $2.50 set.

Allegheny County, R-257, A-1322, N. Fayette Township, 8,265 feet. One course reinforced concrete. Certified check $2,000.

Allegheny County, A-3756, CcCandless Township, 5,240 feet. One course reinforced concrete. Certified check 1$,500.

Armstrong and Indiana Counties, R-319, A-4137-4103, Armstrong and South Bend Townships, Shelocta Borough, 22,248 feet. One course reinforced concrete. Certified check $3,000.

Beaver County, R-278, A-4359, Brighton Township, 4,500 feet. One course reinforced concrete. Certified check $1,500.

Clarion County, R-214, A-3151B, Monroe Township, 5,107 feet. One course reinforced concrete. Certified check $1,500.

Clearfield County, R-62 Spur, Curwensville Borough, Pike and Penn Townships, Lumber City Borough, 33,266 feet. Bituminous surface course treated macadam. Certified check $4,000.

Crawford County, R-89, Sec. 4, W. Mead Township, 2,858 feet. One course reinforced concrete. Certified check $1,500.

Dauphin County, R-339, A-4160-4161, Lykens Township and Gratz Borough, 19,743 feet. One course reinforced concrete. Certified check $2,500.

Dauphin County, Plaza at Capitol Building, Harrisburg, 1,443 feet. One course reinforced concrete. Certified check $1,000.

Delaware County, A-4263, Thornbury Township, 6,000 feet. One course reinforced concrete. Certified check $2,000.

Delaware County, R-132, A-4381, Trainer Borough, 4,512 feet. One course reinforced concrete. Certified check $1,500.

Delaware County, R-133, A-4382, Upper Darby Township, 6,200 feet. One course reinforced concrete. Certified check $2,000.

Delaware County, R-516, A-4383, Radnor and Haverford Townships, 15,312 feet. One course reinforced concrete. Certified check $2,500.

Fayette County, R-247, Sec. 9, Fayette City Borough, Washington Township, 5,539 feet. One course reinforced concrete. Certified check $1,500.

Elk County, R-99, Spur A, A-3910, St. Mary's Borough, Benzinger and Fox Townships, 19,4955 feet. One course reinforced concrete. Certified check $2,500.

Huntingdon County, A-2845-2828-A, Broad Top City Borough, Carbon Township, 7,994 feet. One course reinforced concrete. Certified chek $2,000.

Montgomery County, A-4271, Abington Township, 4,287 feet. One course reinofrced concrete. Certified check $1,500.

Northumberland County, R-1, A-3075, Jackson and Lower Augusta Townships, 10,833 feet. One course reinforced concrete. Certified check $2,000.

Pike County, R-167, Lehman, Delaware and Dingham Townships, 23,319 feet. One course reinforced concrete, 2,905 feet grading and drainage. Certified check $3,500.

Potter County, R-318, A-4285, Genesee Township, 10,560 feet. Bituminous surface treated macadam. Certified check $2,000.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Low bidders on work received September 88th.

Schuylkill County, R-464, A-3925, 3926, Gilberton and Shenandoah Boroughs, W. Mahanoy Township, 8,576 feet. Bituminous surface course on broken stone base. Rudolph & Delano, Tamaqua, Pa., $101,693.90.

Somerset County, R-52, A-3971, Somerset Township, 16,081 feet. One course reinforced concrete. M. F. McCabe & Co., Fairmount, W. Va., $110,559.65.

Susquehanna County, R-12, A-4148, Spring-

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ville and Dimock Townships. One course reinforced concrete. Lane Construction Co., Meriden, Conn., $94,873.50.

McKean County, R-100, A-4292, Otto and Foster Townships. One course reinforced concrete. Joseph Wiesner, St. Mary's, Pa., $190,580.58.

Cambria County, R-276, A-3942, Sec. 7, Adams and Richland Townships. One course reinofrced concrete. B. F. McKillip, Hollidaysburg, Pa., $103,157.04.

Somerset County, R-222, Windber Borough, 2,180 feet. One course reinforced concrete. Winber Construction Co., Windber, Pa., $44,517.45.

Butler County, A-3875, Windfield Township, penetration surface course on reconstructed base. Gray Bros., Latrobe, Pa., $92,883.35.

Susquehanna County, R-174, Sec. 2, Lenox and Harford Townships. One course reinforced concrete. A. W. Hinaman, Williamsport, Pa., $328,679.39.

Clarion County, R-237, A-4234, Hawthorn Borough. One course reinforced concrete. Rinehart Bros., East Liverpool, Ohio, $49,467.42.

Westmoreland County, R-181, A-4261, Rastraver Township. One course reinforced concrete. Donora Construction Co., Donora, Pa., $100,425.15.

Low bids on Road Work opened September 9th:

Northampton County, R-517, A-3909, Upper Mt. Bethel Township, Portland Borough. One course reinforced concrete. Juniata Co., Empire Building, Philadelphia, $79,905.01.

Bucks and Lehigh Counties, R-153, Richland, Springfield, Upper Saucon Townships, Coopersburg Borough. One course reinforced concrete. Cox & John, Malvern, Pa., $297,904.98.

Northampton County, R-165, Sec. 3, L. Mt. Bethel Township. One course reinforced concrete. Capitol Construction Co., Des Moines, Iowa, $44,149.42.

McKean County, R-96, Keating Township, 1,238 feet. One course reinforced concrete. D. L. Dennis, Galeton, Pa., $12,610.50.

Clinton County, R-105, Sec. 7, E. Keating and Noyes Townships. Grading and drainage. Miller Construction Co., Punxsutawney, Pa., $452,885.26.

Westmoreland County, R-119, Sec. 4a and 6, Unity Township. One course reinforced concrete. J. C. Mickey, Latrobe, Pa., $41,491.55.

Bradford County, R-13, A-4107, Asylum Township. Bituminous surface treated macadam. Bryant & Kohl, Inc., Wilkes-Barre, Pa., $56,198.94.

Blair County, A-3575, Logan Township. One course reinforced concrete. Standard Construction Co., Altoona, Pa., $35,391.21.

Clinton County, R-105, Sec. 3-4, Chapman, Grugan Bald Eagle and Allison Townships, Cit yof Lock Haven, 99,077 feet. Grading and drainage. Wm. C. Horn Co., Athens, Pa., $647,117.75.

Bucks Couney, R-150, Morrisville Borough. One course reinforced concrete. Union Paving Co., Thirtieth and Locust streets, Philadelphia, $30,716.88.

Chester County, A-4117, East Brandywine Township. One course reinforced concrete. George I. Thompson Co., Clearfield, Pa. (Rejected.)

Pennsylvania Contracts Awarded

Store and Apartment, 26 East Sixth street, Chester, Pa. Architect, William Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, John G. Pappas, Chester, Pa. Brick, cut stone, steel, 3 stories, 100x21 feet, slag roof, pine, cement and oak floors, plumbing, shoring (heating, lighting reserved), metal lath, tile and marble work, hollow metal sash, ornamental iron work. Contract awarded J. Goldberg, Chester, Pa.

Equipment Building, Lansdowne, Pa. Architect, E. A. Wightman, 1524 Chestnut street, Philadelphia. Owners, Arlington Cemetery, on premises. Stucco, 1 story, 30x110 feet, tin roof, cement and concrete work, electric light, rolled steel sash, iron and steel work. Contract awarded H. H. Wehmeyer, 509 West Cumberland street, Philadelphia.

Repair Shop, Chester, Pa. Architect, private plans. Owners, American Locomotive Co., Chester, Pa. Brick, steel, 1 story, 85x70 feet, slag roof, cement floors, rolled steel sash, ornamental iron work. Contract awarded F. K. Worley Co., Wesley Building, Philadelphia.

Rectory, Mahonoy Plane, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owner, Rev. P. J. Fleming, Mahonoy Plane, Pa. Frame, stucco, 3 stories and basement, 35x37 feet, 17x16 feet, asbestos shingle roof, hardwood floors (heating and plumbing reserved), hot water heat, tile work. Contract awarded to David Walsh, Centralia, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Erie County, R-85, A-3822, A-4128 Conneaut and Springfield Townships. One course reinforced concrete. Contract awarded to Colonial Const. Co., Pittsburgh, Pa., $156,606.16.

Berks County, R-157, Sec. 1, Muhlenberg Township, Temple Borough. One course reinforced concrete. Contract awarded to William B. Sheidy, Wyomissing, Pa., $147,047.30.

Northampton County, A-4203, Bushkill Township. One course reinforced concrete. Contract awarded to Juniata Co., Empire Building, Philadelphia, $48,098.07.

Venango County, O-314, Oakland Township. One course reinforced concrete. Contract awarded to Meredith & McVaugh, Sharon, Pa., $94,803.16.

Cumberland County, R-250, Lemoyne Borough. One course reinforced concrete. Contract awarded to Paul R. Hostetter, York, Pa., $7,415.07.

Butler County, A-3876, Parker Township. Bituminous penetration surface course on broken stone base course. Contract awarded to Jones Const. Co., Woodlawn, Pa., $22,995.61.

Ideals are like stars; you will not succeed in touching them with your hands, but like the seafaring man on the desert of waters, you choose them as your guides and, following them, you reach your destiny.—Carl Schurz.

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New Jersey Construction News

Apartment House, 416 North Indiana avenue, Atlantic City, N. J. Architect and engineer, M. M. Boonin, 23 South Sixteenth street, Philadelphia. Owner, Harry Dinerman, 231 South Victoria avenue, Atlantic City, N. J. Brick, steel, 3 stories, 30x117 feet by irregular, slag roof, pine and oak floors, steam heat, electric light, hollow metal skylights, kalamein doors. Owner taking sub-bids due as soon as possible.

High School, Gloucester, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Gloucester School Board, C. A. Fowler, Gloucester, N. J. Low bidder: Eugene Tourison, 6924 Cresheim road, Philadelphia, $208,000. Heating, Baldwin Ventilating Co., 1628 Ludlow street, Philadelphia, $24,276. Plumbing, Charles Leupold, 1466 Haddon avenue, Camden, N. J., $16,087. Electric, Charles S. Wright, Camden, N. J., $7,000.

New Jersey Contracts Awarded

Residences and Stores (2), 540-42 Kaighn avenue, Camden, N. J., $9,000. Architect, C. Harold Allen, 510 Stevens street, Camden, N. J. Owner, Harry Lichtman, 1221 Atlantic avenue, Camden, N. J. Brick, 2 stories, 14x50 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to A. F. Wacnik, 907 Atlantic avenue, Camden, N. J.

Residence, 603 North Thirty-fourth street, Camden, N. J., $5,000. Architect, private plans. Owner, Charles F. Harkert, Camden, N. J. Block and stucco, two stories, 20x36 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Adam Stephan, 3309 Pelham Place, Camden, N. J.

Dairy Building, Eighth and Market streets, Camden, N. J. Architect, private plans. Owners, Supplee-Wills-Jones, Camden, N. J. Brick, steel, 2 stories and basement, 882x74 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash. Contract awarded George Kessler Cont. Co., 1733 North Marvine street, Philadelphia.

Miscellaneous Construction News

Church, Georgetown, Del. Architect, Norman Hulme, 1524 Chestnut St., Philadelphia. Owners, Wesley Methodist Episcopal Church, Georgetown, Del. Stone, cut stone, steel, 1½ stories and basement, 101x48 8feet, slate roof, maple, pine and cement floors, steam heat, electric light, bond, ornamental iron work. Architect taking bids due September 21st.

Hospital (add.), Frederick, Md. Architect, Edward Leber, Hay Building, York, Pa. Owners, Frederick City Hospital, Miss Nies, superintendent, Frederick, Md. Fireproof, 3 stories and basement, 40x96 feet, composition roof, composition and rubber floors, hollow tile, elevators, safety treads, roof ventilators, ornamental iron, iron stairs, skylights, tile work, metal lath, heating extension, electric light. Plans in progress.

Rectory (alts. and add.), Wilmington, Del. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, St. Ann's Roman Catholic Church, Wilmington, Del. Architect taking bids due September 17th.

The Montgomery Iron & Steel Company, fabricators of steel, ornamental iron, miscellaneous builders' iron and vault lights, formerly of 918 West Berks Street, Philadelphia, have moved their offices to Duncan, Church and Sepviva Streets, Philadelphia.

There will be no interruption in the operation of the plant ae 918 West Berks Street, as they will fabricate at their new plant as well as at the old plant while in the process of moving.

With a larger and more modern plant, increased facilities in equipment, together with a siding on the Pennsylvania Railroad, more advantageous service than heretofore can be given.

The entire plant, as well as the offices, will be at the new location after October 15th.

Harry A. Whartenby, ornamental iron, structural steel and art bronze, formerly of 10 South Eighteenth Street, Philadelphia, has moved his offices and shop to 1823 Brandywine Street, Philadelphia, where additional space will allow him to carry a complete stock of standard builders' iron work.

M. M. Boonin, architect and engineer, has moved his offices from 17 South Seventeenth Street, Philadelphia, to 23 South Sixteenth Street, Philadelphia.

Basford Erickson & Co., roofing and sheet metal contractors, have incorporated their business and will continue under the name of The Erickson Company.

W. B. Shepherd is President; Daniel J. Maguire, formerly Vice-President and General Manager of Warren-Ehret Co., is Vice-President, and A. B. Erickson is Secretary and Treasurer.

The office of the plant will be at the old address, 5942 McCallum Street, Germantown, Philadelphia.

(Continued from Page 584)

as all he really needs to start with is the authorization and backing of the chief executive to create his standing with the superintendent, foreman, and workmen, so as to secure the support and co-operation of the men in the field.

With this necessary step taken, the problem resolves itself into two main parts: namely, Mechanical Safeguarding and Safety Education. As to the first, a thorough inspection of the contractor's machinery, equipment and tools, with a view to installing safeguards where necessary or advisable, is all that is required, and the recommendations of the safety director will, of course, call for the co-operation of the head of the eqipment plant. Then the head of the firm must be willing to stand for the expense of the safeguards or changes required. The mechanical safeguarding of equipment used in the construction industry is after all a simple matter involving only

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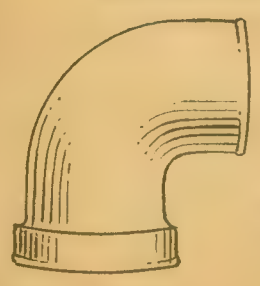
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the willingness on the part of the construction firm head to spend the small amount of money involved and the close study of the mechanical safeguarding needs by the person directly in charge of the purchase and supply of the equipment to the job. I will be glad to go into details of this with any one who is interested.

Assuming that the firm has done its part on mechanical safeguarding of equipment before it goes to the job, let us start right on the job itself for, after all, that is where the accidents happen and not back in the office.

MECHANICAL SAFEGUARDING WHICH CAN BE DONE ON THE JOB HOISTING ESUIPMENT: The job should see to it, if it becomes necessary to temporarily remove any guards, that they are put back into place without fail before the equipment is put in use again.

STEAM BOILERS: The job should be responsible for installing the detachable guage glass guards as well as all fittings. The job superintendent or master mechanic should see that all attachments are in working order and are tested at least once a week and should comply with all state requirements wherever the job is located. I recommend that the blowoff cock be opened at least once a day, preferably at the time of steaming up in the morning, so that any scale or sediment which would have accumulated the previous day and night can be blown off. This will insure better steaming and preservation of the boiler as well as prevent accidents.

CIRCULAR SAWS: The job should provide a definite stop on swing saws to prevent the top of the saw from travelling beyond the front edge of the working table. It will also be necessary to chain the counter-weight to the frame of the machine or other convenient fixed object to eliminate the possibility of its falling on the operator. On treadle operated swing saws, the job should install a strap over the treadle so arranged as to prevent accidental operation of the treadle. The job must also provide adequate guards for belts, pulleys, and revolving projections in connection with the driving of the different types of saws.

Complaints are often made regarding saw guards removed and not put back in place, as well as equipment returned with guards missing. The job superintendent should be held responsible in such cases.

JOINTERS OR BUZZ PLANERS: The Equipment Department should do whatever guarding of belts, pulleys and revolving projections is possible on the jointers and planers, but the job should provide the guarding of belting and shafting when planers are driven from countershaft.

BUILDER'S ELEVATORS: The job should see to it that the unused sides of the elevator are properly boarded up and that the openings to elevator walls are properly guarded as conditions on the job require.

ELECTRICAL EQUIPMENT: The proper safeguarding of electrical equipment, wiring, switch and fuse cut-outs, must be taken care of by the job and this is controlled more or less by local building codes with which the job must become familiar.

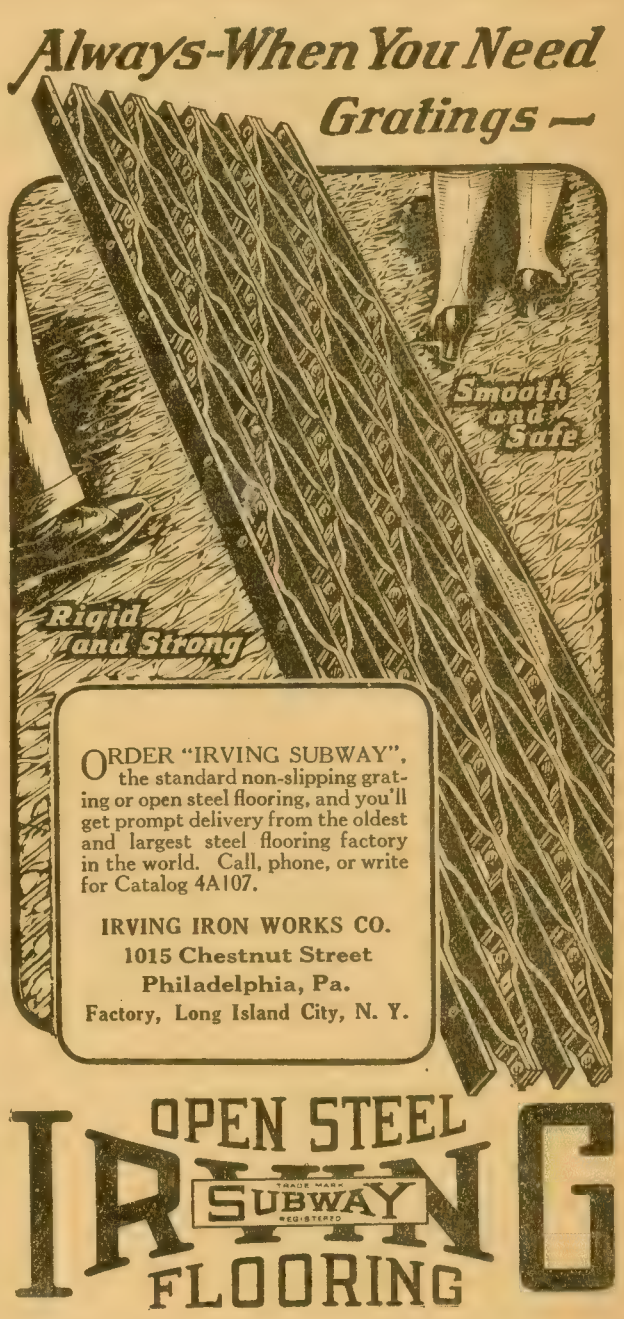
GASOLINE AND KEROSENE CANS: The job superintendent should see to it that a responsible person is in charge of handling gasoline and kerosene as serious accidents will certainly result if lanterns are filled with gasoline by mistake. The job should be expected to stencil or letter "Gasoline or Kerosene" in fairly large type on any cans they purchase or provide themselves.

ENGINE DRIVEN CEMENT MIXERS: The job should be responsible for keeping the doors of such housing closed when the operator is not working on the engine, with the exception of such doors as must be left open for air.

AUTOMOBILE TRUCK SIGNS: These signs caution persons from riding on the trucks and the job superintendent should be responsible for their being in place.

CHISELS AND HAMMERS, DRILLS AND BULL POINTS: The job must keep all such tools properly dressed as well as all handles wedged or tightened, and the job blacksmith or whoever dresses such tools should be instructed and followed up in this regard.

PORTABLE LADDERS: The job should be required to test all ladders periodically and discard or destroy any unsafe or unsound ladders. Under no circumstances are ladders to be painted with lead and oil, which treatment covers up defects or weak spots that would otherwise be noticed. On receipt of machinery or equipment by the job, same should be checked and if parts are missing the same should be reported immediately to the equipment department. It is also of great importance that the job, when returning equipment, sees to it that all detachable safeguards are properly boxed and shipped with all equipment, whether the equipment is being returned to the contractor's general storeyard or being shipped to another job.





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SAFE EDUCATION ON THE JOB: As to the second part, namely safety education, this takes in practically all that must be done right on the construction operation, and includes both matters completely under the control or in the power of the superintendent and foreman as well as training both the skilled and unskilled workmen themselves to think and act safely. As a few suggestions along this line, I offer some of the things I have worked out myself over a period of years as director of safety for Fred T. Ley and Co., Inc.

Semi-monthly safety letters to each job superintendent with information, suggestions, and friendly criticisms; including not more than four fresh or new safety bulletins or posters, which can be secured from the National Safety Council and occasionally from some insurance companies. The use of homemade bulletins, blue printed or photographed. Occasionally, special articles on some one thing, such as "Chains, ropes and cables," "Safe Loads," "Dropsy or Butter-finger Habit," "Fire Prevention," "Stagings," "Goggles," "Salamanders," etc. Danger tags, with the firm's name thereon, supplied in small tin containers fastened on the inside of tool boxes in the blacksmith shop tool house, field office, etc., which are easily available for tying on the defective or condemned tools, machinery or equipment. Suggestions for stout, sound runways, platforms and stagings, with proper toe boards, hand rails, etc.

Suggestions and education on proper piling and placing of lumber, brick, pipe, cement, stone, tile, etc. Suggestions or recommendations on good housekeeping cleaning aisles, passageways, etc., from debris, turning down protruding nails and removing causes of stumbling and falls.

There is much that could be said, that space does not permit, on three of our usual causes of accidents in the construction game which come under the head of stumbling, falls, slipping and dropping material, all of which, however, really come under the one head of "Good Housekeeping" and if the contractor, who is beginning safety work on an organized basis, will devote his energies to good housekeeping, he will cover, at least, half of the ground involved in accident prevention. One final development, which usually comes later, but which, in my opinion, should be put into operation at the very beginning is the job safety committee. I have tried this out in a number of ways, and for the average construction job would recommend as follows:

Print half a dozen simple and intelligent safety rules on a small card to hand to the new employe at the time you give him his brass check. This will start him right, with a proper respect for your interest in accident prevention and in the important fact that you, as an employer, are interested in his physical welfare and this will secure his honest support and co-operation. That each job have a Safety Committee to consist of the job superintendent at the head and not less than two additional men, either foremen or straight-time men, this committee to pay particular attention to and make observation of all hazards present on the work and if such come within the scope of their authority, to either give such directions or orders as will eliminate the hazard, or if beyond their authority, to make immediate report to the superintendent for his action. In addition to this, the members of the committee shall make periodic safety inspections of the entire work, and report to the job superintendent with any recommendations they see fit to make.

The superintendent, together with the members of this committee should meet at least once a week, for fifteen minutes, or as long as may be necessary to review their work and to analyze any accident which had occurred during the previous week, and to take whatever action may be necessary to prevent a recurrence of accidents on the job, or to try to prevent any accidents that may occur due to conditions found. Some contractors have used a button marked "Safety Committee" for the man doing that work, with good results. It sounds good to me and I am going to try it out. The safety director in the office should receive a brief memorandum of the minutes of such safety meetings, so that he may co-operate with the job by suggestions, advise or, if necessary, by interceding with the head of the firm for whatever might be necessary to bring to his attention the matters of expenses or change of policy.

In conclusion, I would heartily recommend that each and every contractor join the National Safety Council and through it, of course, the Construction Section of that body, so as to be in constant touch with the development of accident prevention in general and in the construction industry in particular, as well as to receive the benefit of a steady supply of new safety bulletins, safe-practices pamphlets, the monthly magazine, *National Safety Council News* and the interchange of information and ideas from the many other construction firms who constitute the Construction Section.

SHEET STEEL GARAGES ARE FIRE TESTED

Two tests to determine the stability under fire conditions of all-steel garages and the hazard to adjacent buildings, accompanying a complete burning-out of contents, have been made at the Bureau of Standards at the request of the Sheet Steel Trade Extension Committee, which built the garages for the tests. The minimum allowable distance between such garages and the lot line, or adjacent buildings, varies widely in the building codes and fire regulations of different cities.

The interpretations of the results, the Bureau explains, depends on the assumptions relative to the degree of hazard to which a minor building, such as a garage, may expose a major building or another garage. If exposure of a degree that can be controlled with minor fire-fighting equipment or effort is to be permitted, it is apparent, the Bureau says, that the all-steel garage can be placed as close as one foot from the lot line for all walls except the door side, provided any windows in the wall next to the lot line or exposed building have fixed metal frames glazed with wire glass. Under the same conditions an all-steel garage would be no hazard to a similar garage two feet away. These tests, as well as some preliminary trials with the burning of gasoline in automobile gasoline tanks, disclose, the Bureau reports, that there is little probability of explosions occurring—if pressure develops because of vaporization of the gasoline, it is likely to be relieved before a high intensity is built up by failure of the joints of the tank, forcing of the carburetor, or vacuum tank, or melting of soldered connections.

MARKETS FOR SHORT-LENGTH LUMBER SURVEYED IN NEW PUBLICATION

Refrigerators, ice cream cabinets, automobile export boxes, sectional and ready-cut buildings, coffins, caskets, garage door panels, tanks and vats, screen doors, stepladders, advertising sign panels, washing machines, beehives, toys, agricultural implements, cable reels, and commercial fixtures are some of the leading commodities whose manufacture offers broad outlets for short-length lumber, according to an illustrated circular just issued by the Forest Service, United States Department of Agriculture, entitled "Industrial Outlets for Short-Length Softwood Yard Lumber."

This new publication, Department Circular 393-C, stresses particularly the inability of the building trades to absorb the available quantity of short-length lumber, in spite of the fact that they offer the largest single outlet for short lengths, especially of worked lumber such as flooring, siding and ceiling, and end-matched softwood flooring and ceiling.

According to its author, "Industrial Outlets for Short-Length Softwood Yard Lumber" has been written in response to the demand of the lumber trade for information regarding the disposal of this material. In setting forth the facts obtained by the Forest Products Laboratory at Madison, Wisconsin, in a re-

cent survey of the situation, the author points clearly to the obligation of the lumber industry to take definite steps toward improving the marketing of short lengths. This may involve rather extensive remanufacturing at a sawmill to furnish material in multiples of the length the manufacturer requires. Information regarding the sizes that can be furnished, and also of the needs of the manufacturer, must be readily disseminated. Costs must be studied so that prices may be stable. The consumer needs not only the material cut to his needs, but also a reliable source upon which he can depend for regular supplies. In every way the producer needs to pay greater attention to merchandising. The problem is not an easy one to solve, the author points out, but experience shows that it can be solved very profitably for all concerned where the will to do so is present.

The survey made by the Forest Products Laboratory covered first in great detail the needs of 18 wood fabricating industries that use softwoods in considerable quantities and whose total annual consumption is 858 million board feet, or 56 per cent. of all the softwood lumber used in the manufacture of wooden factory products, exclusive of boxes, crates, mill-work and railroad cars.

Other industries, including less promising outlets for short lengths, were also surveyed, their annual use of softwoods totaling over 5 billion board feet. The report also covers the distribution of an undetermined quantity of softwoods by 76 wholesalers in 24 States, and 493 retailers in 15 States.

Minor outlets for short lengths include ironing boards, stove boards, battery boxes, drawing boards, shovelboxes, toilet tanks, cloth boards, core stock, and windmill vanes. Established outlets well worth cultivating are said to be box shooks and crating, including shorts for blocking, bracing and skids for shipping machinery.

A group of industrial uses for which only general information was obtained includes the railway car industry, millwork, woodenware, shade and map rollers, patterns and flasks, grain doors, fences, piano boxes, car racks, scale-beam boxes, and factory trucks.

The new booklet indicates that industrial consumers are potential buyers of three times the present considerable consumption of short lengths.

"Of equal importance to the lumber producer," says the publication, "is the indication that short lengths sold to the industries as ready-cut stock bring a price more on a parity with the price of long lengths than do short lengths sold for building construction."

A rather hopeful note is sounded by the author, who says: "The manufacturing and marketing difficulties are being overcome in a great number of cases, and examples of such progress among both manufacturers and consumers offer the most convincing evidence of what may be done.

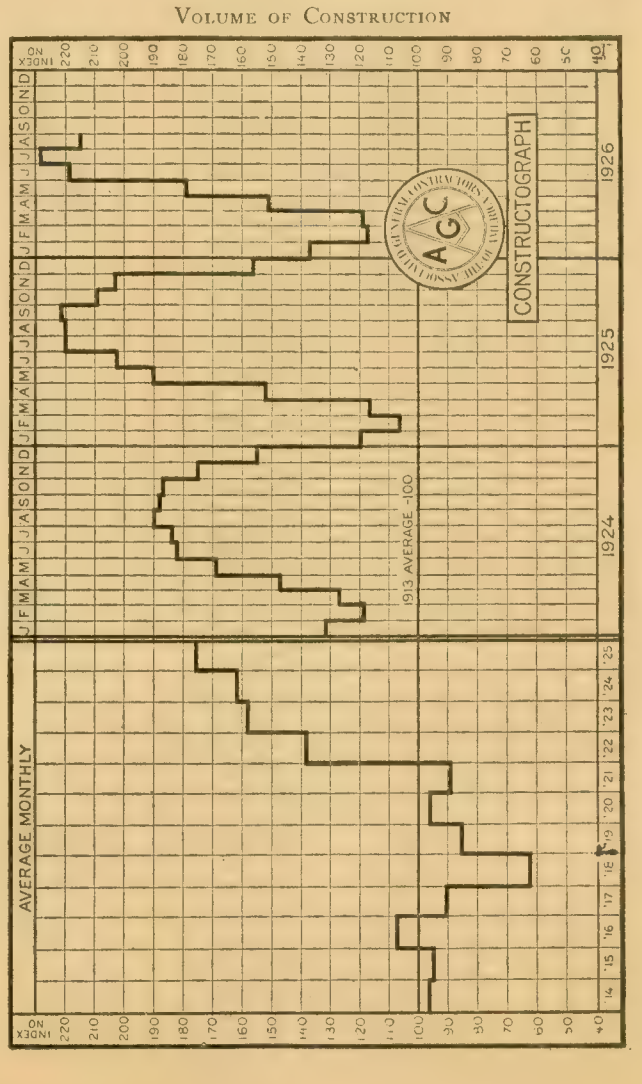
"Cutting to size at the mill is being practiced with increasing frequency as the requirements for products such as stepladders, incubators, refrigerators, and sectional houses make themselves felt. Public agencies can accelerate the tendency somewhat by collecting and distributing helpful information, but the success of the movement in general depends upon the initiative of the lumber trade itself."

The booklet can be obtained free as long as the supply lasts from the United States Department of Agriculture, Washington, D. C., and from the Forest Products Laboratory, Madison, Wisconsin. It may also be secured by purchase from the Superintendent of Public Documents, Washington, D. C.

Construction operations are keeping abreast of the records set in 1925, the greatest building year in the history of the country. The total volume of operations carried on during the first eight months of 1926 is three per cent. larger than the corresponding volume registered last year, according to statistics compiled by the Associated General Contractors of America.

The margin over last year's figures was somewhat reduced during August when the total for the month dropped six per cent. below the figure set in July. This loss was compensated largely by the mass of work handled during July, when the previous "single month rec broken.

VOLUME OF CONSTRUCTION



The volume of operations recorded for August has been exceeded in only five months: July, August and September, 1925, and June and July, 1926.

The peak of operations last year was not reached until September, though figures set in each month following May and before December were above the previous high mark established in August, 1924. Construction activities this year have shown more of an inclination to spurt. This is shown by the fact that although only three months in 1926 have produced levels above that reached in August, 1924, the total for the first eight months stands higher than that achieved by the comparatively consistent trend of 1925.

The index number for August of this year, based on the average volume of construction in 1913 as 100, was 215. The July index number was 228.

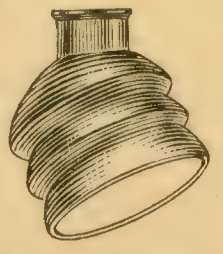
HOW MUCH DOES HIGH GRADE MAN EARN?

Annual Earnings of Building Trades Mechanics Are Figured Out in Rochester, New York

By R. F. MILLER, Secretary, Rochester Community Conference Board

How much can a high grade building mechanic working for a well established contractor earn in a year? That is a question about which there has been considerable speculation but very little definite information. The hourly rates for the different tradesmen are well known, but the annual earnings, taking into account lost time and overtime, have never been accurately determined.

One of the strongest criticisms of the construction industry has been that it is subject to severe fluctuations due to



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conditions and, as a result, building mechanics tend to be unemployed through a considerable portion of the year. In recent years there has been a widespread movement to lengthen the building season by stimulating construction work throughout the entire year. Just how successful these efforts have been and how they have been reflected in the earnings of the high grade, steady, reliable men in the building industry has been a mooted question.

The Rochester Community Conference Board, a semi-public fact finding agency representative of all interests in the construction industry of the city, has endeavored to give at least a partial answer to that question. Through the courtesy of 30 of the leading contractors, actual payroll figures for 1925 of several thousand mechanics of all types were available for study. From these were eliminated the temporary workers and all others not on the payroll of the concern throughout the year. This left a total of about 450 tradesmen who could be classified as regular, steady, high grade men. These men, by virtue of their superior ability and longer experience, represented the "cream" of the industry and obviously had first claim on employment.

Firms that co-operated in the study of the board are prominent concerns of the city and practically all have been established in business for many years. Moreover, 1925 was one of the most prosperous years that the building industry has ever enjoyed in Rochester. Building was at peak levels, employment was general and the industry was in the most advantageous position in recent years. Therefore, the earnings shown for the various tradesmen probably represent the highest it is possible for these tradesmen to earn. The earnings shown are in consequence not the wages of the *average worker,* but the earnings of the *best* mechanics working in a prosperous building year. This must be kept in mind in interpreting the figures.

This study provokes a number of interesting questions. What percentage of the total number employed in the building industry of Rochester can be classified as regular, steady men? In other words, what percentage of the men in the industry receive the earnings shown in the accompanying tabulation?

This question is not easy to answer, as conditions vary among the different contractors represented in the board's study. Some of the firms with well established businesses and a diversity of work showed as high as 50 per cent. of the average working force to be regular, steady men. Other firms showed as low as ten per cent. Taking into account all types of contractors and all firms represented in the study, the average firm showed approximately 25 per cent. of its average working force to be regular, steady men.

Another question is, what craft enjoys the most continuous employment? The above figures indicate that, by a wide margin, the roofers have the most irregular employment. Practically all the work of this craft is outside work, and, therefore, most subject to weather conditions. It is not possible to use winter enclosure methods, and other expedients which have been employed to advantage on other crafts, such as the masons and carpenters.

The high percentage enjoyed by the hoisting engineers and the laborers probably is explained by the large amount of overtime which these crafts enjoyed during 1925. The wide range between the high and low earnings also indicates that the high percentages may to some extent be discounted. The relatively high percentage enjoyed by masons also is significant, as workers in the trowel trades have been in years past one of the hardest hit by seasonal fluctuations.

Taking into account the varying number employed and the different wage scales for the various crafts, the weighted average* of actual earnings of the 325 mechanics included in the board's study, figures out $2500 per year, compared with a theoretical full year of $2650. This means that the regular leading mechanic averaged 94 per cent. of a full working year's earnings in 1925.

This is a gratifying showing and is the strongest kind of evidence that at least among the prominent concerns, the efforts toward stabilization are resulting in progress. The success indicated by the leaders shows what can be accomplished.—*American Contractor.*

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*NOTE—The mechanics covered by this average and the respective number employed, upon which the weighted average is based, follows: Trowel trades, 900; Carpenters, 1600; Electricians, 500; Hoisting Engineers, 100; Iron Workers, 150; Painters, etc., 1000; Plumbers, etc., 500; Sheet Metal Workers, 400; Tile Setters, etc., 200; Total, 5400. Laborers, apprentices, etc., numbering 3000 or foremen are not included in the average.

Craft	No. of firms	Employes involved	High earnings	Low earnings	Average earnings	Hourly wage scale	Percentage* of full year's earnings
Mason Foreman	5	19	$4105	$2772	$3540		
Electrician Foreman	2	6	3655	2795	3180		
Carpenter Foreman	4	19	3389	2305	2790		
Laborer Foreman	6	7	2507	2177	2320		
Marble and Tile Workers	3	14	3102	2507	2880	1.25	100
Masons	6	54	3635	2364	2820	1.37½	89
Hoisting Engineers	5	12	3644	2052	2820	1.20	103
Plumbers	3	20	3303	2060	2600	1.12½	101
Electricians	4	40	3036	2050	2580	1.18	95
Steamfitters	3	26	2962	2070	2500	1.12½	97
Stone Cutters	1	6	2828	2323	2480	1.25	87
Carpenters	6	78	3032	2013	2420	1.10	96
Sheet Metal Workers	4	25	2903	2021	2380	1.10	94
Iron Workers	3	19	2868	2017	2380	1.12½	92
Painters	5	25	2564	2022	2330	1.10	92
Roofers	4	6	2213	1436	1820	1.00	80
Chauffeurs	9	20	1993	1300	1680		
Building Laborers	5	55	2279	1178	1630	.70	102
Teamsters	4	4	1782	1398	1560		
Marble and Tile Helpers	3	14	1694	1032	1450		
Street Laborers	2	36	1912	1103	1440	.65	96
Electricians' Helpers	2	25	1640	1022	1340		
Mason's Apprentices	5	10	1705	1100	1300		

*NOTE—The percentage shown is the ratio between the actual average earnings and the earnings of a theoretical year of 52 weeks of 44 hours each at prevailing scale for each craft.

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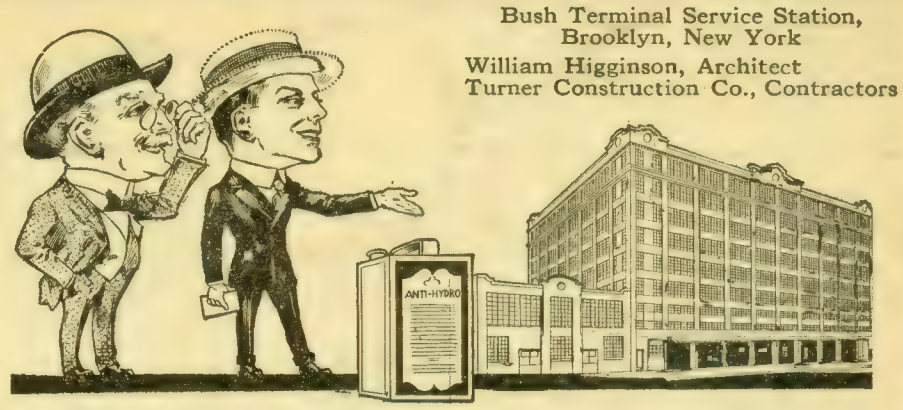
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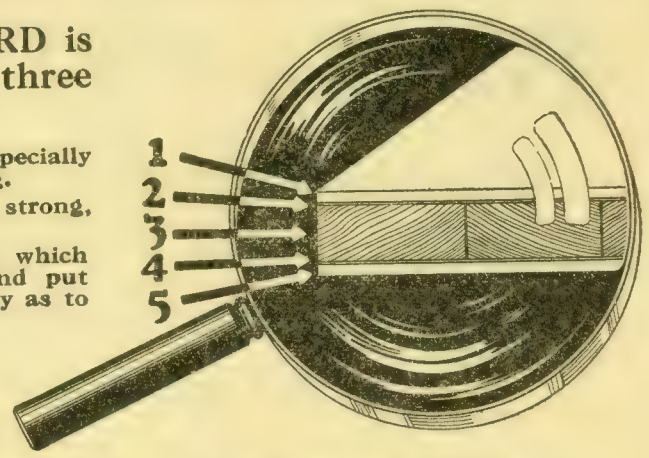
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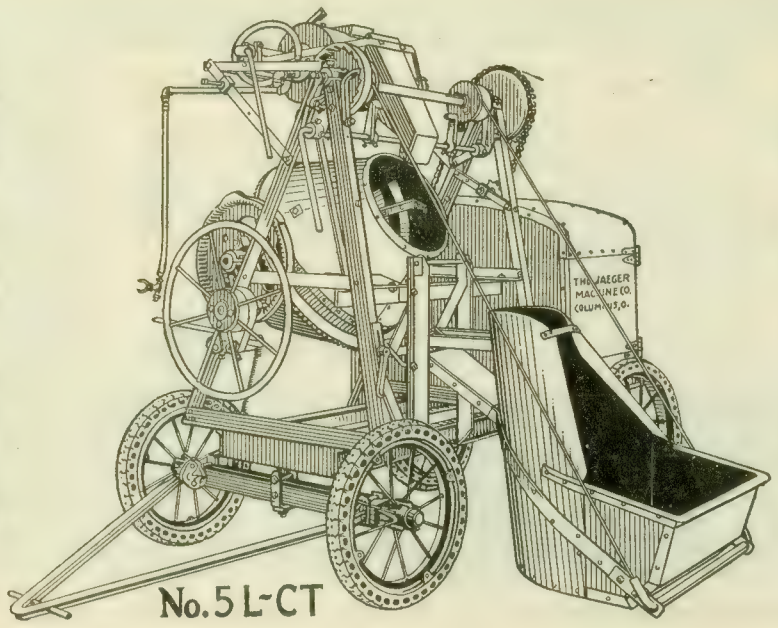
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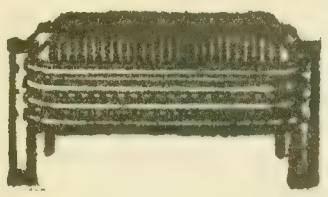
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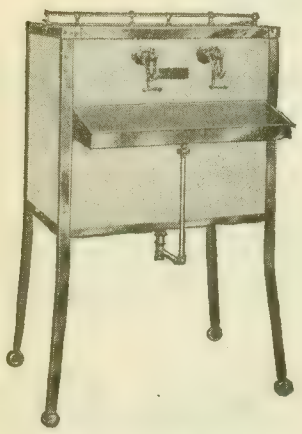
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As The Editor Sees It

SUGGESTIONS FOR THE HOME BUILDER

J. F. SCHAEFFER, *Field Engineer, National Lime Association*

In this day of high prices the home builder welcomes any suggestion which will help to cut costs. In the construction of his home, the selection and proper use of materials followed by good workmanship, should be closely watched in order to secure satisfactory results. A good job in the first place will save money and give permanent satisfaction. "Jerry" buildings should not be tolerated, even in the face of a lean pocketbook, for repairs to cheap construction will very soon offset the initial saving.

All work should be done by a good mechanic, for the results of his work are constantly in evidence after completion. This is particularly true of carpentry, plastering and painting. Repairs due to poor or careless workmanship are difficult, unsatisfactory, and expensive.

Materials—There are a number of basic materials that are always used in the construction of a home. It goes without saying that lumber or brick should be the best quality for the use intended. No man wants a "leaky" house, either from rains or winds; nor does he want an unsightly home due to the selection of poor exterior or interior wall coverings. Paint that peels and shingles that curl are a liability. These are only a few items that go into the making of a house, which are generally selected with considerable care.

Other materials should not be overlooked, especially those for foundations, such as concrete, brick or tile. Cement, lime, sand and stone, or gravel are the basic materials for mortar, plaster and stucco, and the choice made is final, for repairs are more expensive than good work in the first place. Also a good job will increase the re-sale value of the structure, while a poor job will decrease the value and make it more difficult to dispose of the property.

Sand—The material thought of the least by the contractor is usually sand. However, it should be bought with great care. Many well-defined cases of concrete, mortar and plaster failures are due to poor sand. Building sand should be clean and well-graded from fine to coarse, free from organic matter and an excess of loam and silt. If necessary the mason's sand should be screened or much time will be lost by the brick layers in digging out pebbles when spreading mortar. While sand for concrete should be well-graded and clean, larger particles may be present without impairing the final product. Sand for plaster should be selected with as great care in grading and cleanliness as for mortar, and should all pass a number eight (8) sieve.

Coarse Aggregate—This is usually either well-graded or broken stone, ranging in size from about ⅜ of an inch to 1½ inches. In most gravels, material smaller than ⅜ of an inch is not detrimental, if in small quantities. If large quantities prevail, the gravel should be screened through a four (4) mesh screen. Particles larger than 1½ inch occur but are not detrimental provided there are other smaller sizes well graded down to about ⅜ inch.

Gravel or broken stone grading from ⅜ inch to about 1 inch may be used for almost any kind of concrete, but more frequently in thin walls, floors and sidewalks, while the large sizes are best used in heavy walls and footings. As with sand, the coarse aggregate should be free from soft particles, loam, leaves and sticks or organic matter.

Cement and Lime—All cement should be fresh and of a well-known brand. The

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bags should be stored under cover as a protection from rain and moisture, and no hardened lumps should be used. A 94 pound bag of cement will make about 1 cubic foot of paste.

Either hydrated lime or quicklime may be used, and putty or paste prepared from each. With quicklime this is always necessary, but with hydrate, except for the white finish coat, the preparation of putty is not required. Quicklime paste is prepared by slaking the fresh lime in a watertight box, and run through a 14-mesh screen to eliminate any unburned particles or "core." The slaked quicklime should be allowed to age for a period of time, from 3 days to 2 or 3 weeks, or even as the plasticity and sand-carrying capacity of the lime putty are improved by ageing

About 27 pounds of quicklime will make 1 cubic foot of putty, while one barrel (180 lbs.) will yield approximately 7 cubic feet. Hydrated lime can be bought in 50 pound sacks, which are convenient to handle. The sacks may be stored like cement and kept ready for instant use. About 40 pounds of hydrate will yield 1 cubic foot of paste or putty when soaked with water.

Concrete—Good concrete for any purpose is easy to secure, provided the ingredients are clean, well mixed either by machine or by hand, and not too much water be used. A good proportion of materials for concrete for all general purposes is one (1) part Portland cement, two (2) parts sand, and four (4) parts gravel or crushed stone, mixed by volume or measure. An 8-quart bucket (10 lbs) of hydrated lime added to the mix with each bag of cement used will impart increased workability, uniformity and watertightness to the finished concrete. If mixed by hand it should be brought to an even color before the water is added, and if mixed by either hand or machine, only enough water should be used so that if a bucket full of mixed concrete is tipped over and raised slowly, the mass will not settle more than half the height of the bucket. For practical purposes, 6½ to 7 gallons of water for each sack of cement used will make the best concrete. The stones should be covered with mortar and no water should flow away from the mass.

The foregoing directions will give an easy-working, uniform and watertight concrete, so important in cellar wall and floor construction. When the concrete is placed in the forms it should be thoroughly tamped and spaded to make sure that there are no rough loose patches of stones next to the forms. If the walls are not completed in one day, the surface of the older concrete should be roughened and washed clean before continuing the pouring. Particular care should be exercised to see that the new material is thoroughly rammed up against the old surface in order to secure a good bond and prevent cracking.

All the materials, including the water, must be proportioned uniformly. The use of hydrated lime promotes uniformity and density by filling the voids in the cement, forming a seal to the passage of water. Its use also increases the durability and wearing qualities of the finished concrete.

Mortar—Mortar for brick, stone or tile should be thoroughly mixed, either by machine or hand, until free from streaks. First mix the ingredients together dry, then add fresh water to bring the mass to the proper consistency. One (1) measure (such as a shovel, bucket, box, wheelbarrow, etc.,) of lime putty or dry hydrated lime, to three (3) measures of mortar sand will make a good mixture for all ordinary work. It is more than strong enough for small house construction or an office building or apartment.

For basement walls, footings or any work below grade, one (1) measure of Portland cement to one (1) measure of lime putty or hydrate to six (6) measures of sand should be used. This will give a very strong, durable, and watertight mortar of sufficient strength to carry any load imposed upon it. This proportion may also be used for chimneys and the laying of all hollow tile and concrete block.

For ordinary walls of face or common brick, brick veneer or concrete block above grade, where a little extra strength is desired, use a mixture composed of one (1) measure of cement, three (3) measures of lime putty or hydrate, and twelve (12) measures of sand. The bricks should be laid on a full bed of mortar and the vertical joints filled. If the vertical joints are left open, there is a chance of water seeping through.

For cut stone work above grade the mortar should consist of one (1) measure of lime putty or hydrate to two and one-half (2½) measures of sand, to which add about one-sixth (1-6) measure of white stainless cement. For waterproofing the backs of the stone, they may be plastered with the same mixture.

(Continued on page 611)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Restaurant Building (alts.), 126-28-30 South Fourth street, Philadelphia. Architect, Ralph Bencker, Bellvue Court Building, Philadelphia. Owners, Horn & Hardart Baking Co., 214 South Tenth street, Philadelphia. Brick, 2 stories, 126x130 feet. Plans in progress.

Office and Warehouse, Southeast Corner Tenth and Spring Garden streets, Philadelphia. Architects, Rankin & Kellogg, 1805 Walnut street, Philadelphia. Owners, Philadelphia Wholesale Drug Co., 645 North Broad street, Philadelphia. 7 stories, 200x200 feet. Plans in progress.

Store and Office Building, 928 Chestnut street, Philadelphia. Architect, Benjamin R. Stevens, 1827 Arch street, Philadelphia. Owners, Singer Sewing Machine Co., 924 Chestnut street, Philadelphia. Brick, steel, concrete, 4 stories. Plans in progress.

Church, Allegheny avenue, East of Twenty-ninth street, Philadelphia. Architect, F. Ferdinand Durang, 1220 Locust street, Philadelphia. Owners, Corpus Christi Roman Catholic Church, Rev. F. J. Kane, on premises. Stone, 1 story and basement, 70x150 feet, slate roof, steam heat, electric light. Plans in progress.

Bank Building, Kensington avenue and Torresdale avenue, Philadelphia. Architects, Davis, Dunlap & Barnery, 1805 Walnut street, Philadelphia. Owners, Fairhill Trust Co., Fifth and Allegheny avenue, Philadelphia. Limestone, steel, brick, 1 story and basement, 50x70 feet. Plans in progress.

Store and Apartment, Northeast Corner Thirteenth and Pine streets, Philadelphia. Architect, Joseph Margolis, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Brick, 4 stories, 44x80 feet, slag roof, hardwood floors, steam heat, electric light, tile work, carpentry and mill work, plate glass, copper bulks, terra cotta. Architect taking sub-bids.

Residences (345), Castor road near Hellerman street, Philadelphia. Architect, private plans. Owner, Joseph Friedman, 4831 North Twelfth street, Philadelphia. Brick, 2 stories, 16x37 feet, slag roof, hardwood floor, hot water heat, electric light, basement garages. Owner will be ready for sub-bids in one month.

Garage and Show Room, Southwest Corner Front and Westmoreland streets, Philadelphia. Architects, Watts & Coscia, Liberty Building, Philadelphia. Owners, Allegheny & Front Street Holding Syndicate, care of architect. Brick, steel, 2 stories and basement, slag roof, cement floors, ornamental iron work, rolled steel sash. Revised plans in progress. Architect will take new bids in 3 weeks.

Lodge Buildings (alts.), 707 North Broad street, Philadelphia. Architect, Frank V. Nickels, 15 South Twenty-first street, Philadelphia. Owners, Bricklayers' Union, on premises. General alterations. Architect ready for bids.

Factory, Erie avenue and G street, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Philadelphia Gear Works, on premises. Brick work, concrete, steel, 2 stories, 398x110 feet (plumbing, heating, electric reserved), metal lath, hollow metal sash, rolled steel skylights, tin-clad fire doors, roof ventilators, ornamental iron work, dampproofing, architectural terra cotta, cement and maple floors, hollow tile, metal partitions, steel chimney. Architect taking bids due September 30th.

Residence, Chelten avenue near Fifth Seventh street, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owner, J. M. Zerbey, Esq., care of Zerbey & Halloway, 4717 North Broad St., Phila. Stone, 2½ stories and basement, 55x42 feet, hot water heat, electric light, tile work, metal lath, ornamental iron work, slate roof, oak and pine floors, plumbing, metal weather strip, waterproofing, septic tanks, linoleum, flagstone, treadlite or linotile floors, metal casements. Architects taking bids due September 27th.

Apartment House, 360 East Tulpehocken street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owner, Frank J. Orland, Mr. George L. Rote, 3812 North Sixteenth street, Philadelphia. Brick, steel, reinforced concrete, 3 stories and basement, 38x56 feet, wing 21x131 feet, wing 20x131 feet, slag roof, oak, pine, cement, tile and marble floors, steam heat, electric light, metal lath, metal weather strip, kalamein doors, ornamental iron work, plumbing, refrigerators, linoleum floors, travertine work, cast stone. Mr. George L. Rote taking bids due as soon as possible.

Laundry Building, 1504 Mervine street, Philadelphia. Architect, Julian Simsohn, Broad and Girard avenue, Philadelphia. Owners, Davis & Young Coat & Apron Supply Co., on premises. Brick, reinforced concrete, steel, 1 and 2 stories, 72x20 feet, slag roof, cement floors, steam heat, electric light, rolled steel, bond, floor hardener, ornamental iron work. Architect taking bids due as soon as possible.

Garage, 325-29 North Fourth street, Philadelphia, $175,000. Owner, Benjamin Egnal, 1206 Liberty Building, Philadelphia. Brick and steel, 4 stories, 66x117 feet, 40x60 feet, slag roof, cement floors, electric light. Permit issued.

Rectory (add. and alts.), West side Sangor street, North of Jackson street, $6,000. Architects, Hoffman-Henon Co., Finance Building, Philadelphia. Owners, St. Batholomew's Roman Catholic Church, Rev. J. J. Scanlon, on premises. Brick, second story add., 24x32 feet, carpentry, mill work, plastering, painting, glazing, plumbing, electric work, metal lath, ornamental iron. Permit issued.

Residences (3), 3540-42 Witte street and 3547 Sepviva street, $6,000 total. Architect, private plans. Owner, Fred Kaiser, 3564 Witte street, Philadelphia. Brick, 2 stories, 14x25 feet, 10x10 feet, pine floors, hot air heat, electric light. Permit issued.

Pennsylvania Railroad Work. Owners taking bids due September 29th before noon. No. 43 steel bars, shapes, plates. No. 45 steel rope, guy and messenger strand, lime coated and basic wire, woven wire fencing, wire nails, fence posts. No. 46 steel sheets. No. 44.

Shops Buildings, Fern Rock Terminal Yard, Broad Street Subway. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Low bidders: Golder Const. Co., 263 South Fifteenth street, Philadelphia; Repair, $870,000, Inspection, $225,000; Entrance, $15,000; total, $1,110,000. F. K. Worley Const. Co., Wesley Building, Philadelphia; Repair, $893,859; Inspection, $216,247; Entrance, $20,922; total, $1,131,018.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Contract No. 101, bridge at Ridge avenue, Manayunk Elevated; low bidder, O'Neill Co., 127 East Mermaid lane, Philadelphia, $328,000. Tacony Creek sewer, low bidder, J. J. McHugh, 1617 Race street, Philadelphia, $13,662.

Residences (39), (11) Georges lane and Berks street, (28) Bleigh and Leon streets, Philadelphia, $167,900. Owners, Steinman & Lessee, 25 South Fifty-ninth street, Philadelphia. Brick, 2 stories, (11) 15x28 feet, 11x11 feet, (28) 16x30 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (25), South side Glenmore avenue, West of Sixty-fifth street, $113,500. Owners, Shapiro & Reed, 5230 Walnut street, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Manufacturing Building, Allegheny avenue and Lawrence street, $40,000. Architect, Julian S. Simsohn, Broad and Girard avenue, Philadelphia. Owners, Smith-Drum & Co., on premises. Brick, steel, concrete, 2 stories, 100x104 feet 6 inches, Barrett roof, cement floors, plumbing, rolled steel sash, fire doors, ornamental iron (electric work, heating and sprinklers reserved). Permit issued.

Storage, Northeast Corner Chew and Hammond streets, Philadelphia, $4,000. Owners, Heintz Mfg. Co., on premises. Iron, 1 story, 60x86 feet. Permit issued.

Factory (alts.), Tenth street, Westmoreland and Sedgley avenue, $4,000. Architect, J. Naschold, 5234 North Second street, Phil-

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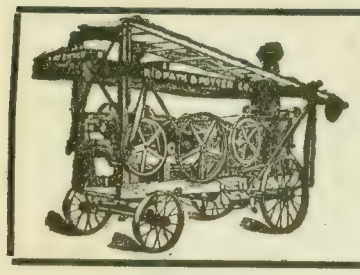
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adelphia. Owners, I. Fischman & Son, on premises. Brick, cemnet work, plastering, carpentry, mill work, tile work, skylights, plumbing, heating, electric wiring. Permit issued.

Residences (2), Garage (1), Germantown avenue and Durham street, $35,000. Architect, private plans. Owners, Babis & Bender Const. Co., Shubert Building, Philadelphia. Brick, 2 stories, 18x60 feet, 16x50 feet, garage, 2 stories, 42x92 feet, slag roof, hardwood, pine and cement floors, hot water heat, electric light. Permit issued.

Residences (2), Oxford street, North of Tyson street, $10,000. Architect, private plans. Owner, H. Gorelick, 2427 Douglas street, Philadelphia. Brick, 2 stories, 14x48 feet, slag roof, hardwood and pine floors, electric light. Permit issued.

Residences (6),) West side Fourth street, South of Godfrey avenue, $28,000. Architect, private plans. Owners, T. J. & F. Kiely, 7032 Greene street, Philadelphia. Brick, 2 stories, 15x29 feet, 12x13 feet, hot water heat, electric light, slag roof, pine floors. Permit issued.

Residence and Store (alts.), Southeast Corner Franklin and Poplar streets, $2,000. Architect, private plans. Owner, Harry Melrose, 702 Poplar street, Philadelphia. General alterations. Permit issued.

Residences (2), South side Ripley Street, west of Loretta Street, Philadelphia, $5,000 each . Architect, private plans. Owner, Edward G. Mueller, Chamounix, West Park, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Supplies, Philadelphia. Owner, City of Philadelphia, Electrical Bureau, 215 City Hall. Owner taking bids due Sept. 30th at noon. Certified check 5 per cent. of bid. Paper, rubber lead covered tables, wire, shells, junction boxes, fire and patrol posts and fittings, lead, pipe, solder, manhole frames and covers, etc.

Miscellaneous Work, Delaware River. Owner, Department of Wharves, Docks and Ferries, Pier No. 4 (Municipal) S. Wharves, Philadelphia. A: Construction with appurtment work Bridge Street wharf, Bridesburg. Deposit $10.00. Refunded. B: Incidental of fence along west line of Storage Track Pier No. 80 S. Delaware Wharf. C: Repairs to side walls to Vine St. Pier, No. 19 North. D: Repairs to concrete foundation Queen St. Pier, No. 33 South Cristen St., Pier 40 South. Replacement of Slagpoles at Dock St., Pier No. 16 South. F: Replacement of Wood fenders and guard logs, Municipal Pier No. 16 South. No Deposit. Certified check 5 per cent. of bid. Owner taking bids due Sept. 28th at noon.

Apartment House (alts. and add.), 2122 Locust Street, $35,000. Architect, private plans. Owners, Crosstown Realty Co., 25 S. 17th St., Philadelphia. Brick, 4 stories addition, 32x33 feet, general alterations. Permit issued.

Residence (alts. and add.), 6507 North Twelfth street, Philadelphia. Architect, Silverman and Levy, Elrae Building, Philadelphia Owner, Edwin Frank, on premises. Carpentry and millwork, demolition, brickwork, steel and iron work, hot water heat, tile, sheet metal work, marble work, plastering, electric work, plumbing, painting and glazing, ornamental iron work. Architect, taking bids due Sept. 27th.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Apartments and Stores (2), 202-04 Brown Street, Philadelphia, $10,000. Architect, private plans. Owners, Soiffer Bros. and Cutler, 1304 Arch Street, Philadelphia. Brick, 3 stories, 39x21 feet, slag roof, pine floors, hot water heat. Contract awarded to Katz and Clyman, 5038 North Hutchinson Street, Philadelphia.

Rectory (alts. and add.), Wissinoming, Philadelphia. Architect, Hoffman Henon, Finance Building, Philadelphia. Owner, St. Bartholomew R. C. Church, Rev. J. J. Scanlon, on premises. Carpentry and millwork, plastering, painting and glazing, plumbing, electric light, metal lath, ornamental iron work. Contract awarded Murphy Quigley Co., 1518 Sansom Street, Philadelphia.

Alterations and Additions, 1810 Fairmount Ave., Philadelphia. Architect, H. B. Weldon, 1817 Callowhill Street, Philadelphia Owner, W .E. Taber, 1810 Fairmount Avenue, Philadelphia. Brickwork, cement and concrete, structural steel, carpentry and millwork, metal lath, plastering, tile work, cut stone,

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copper sash, oak floors, steel kitchen hardware, electric work, (plumbing, heating, reserved), shoring. Contract awarded to A. Kopetz, 988 North Fifth Street, Philadelphia.

Garage, South side Melon Street, east of 34th Street, Philadelphia, $4,000. Architect, private plans. Owner, A. Leibovitz, 1112 Franklin Trust Building, Philadelphia. Brick, 1 story, 47x60 feet, slag roof, cement floors, electric work. Contract awarded to Edw. C. Haldeman, 5907 N. 21st St., Philadelphia.

Shop (add.), 332 South Smedley St., Philadelphia. $3,000. Architect, private plans. Owner, Philip B. Wallace, 1120 Locust St., Philadelphia. Brick, 3 stories addition, 14½-x6 feet and 4 inches, slag roof, electric light. oCntract awarded to Aaron H. Spence, 1805 Walnut St., Philadelphia.

Garage (alts.), 8811 Germantown Avenue, Philadelphia, $2600. Architect, private plans. Owners, Mrs. B. R. Marsden, on premises. General alterations. Contract awarded to Alfred E. Martin, 1207 Race Street, Philadelphia.

Junior High School, Sixteenth and Wharton streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contract awarded: Nelson Pedley Const. Co., Corn Exchange Building, Philadelphia, $961,245. Electric, Walker-Kepler, 531 Chestnut street, Philadelphia, $67,942. Heating, S. Faith & Son, 2427 Pennsylvania avenue, Philadelphia, $98,634. Plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, $44,635. Ventilating, Gerbrick & Kauffman, 44 North Second street, Philadelphia, $7,859.

Sales and Service Building (alts.), Broad and Poplar streets, Philadelphia, $21,000. Architect, Philip S. Tyre, 114 South Fifteenth street, Philadelphia. Owner, Harry H. Goldberg, Franklin Trust Building, Philadelphia. Carpentry, mill work, plastering, tile work, hardware, concrete work (plumbing, heating and electric separate). Contract awarded to Conneen Const. Co., 2313 Walnut street, Philadelphia.

Sales Room and Warehouse, Sixteenth, Olive and Swain street, Philadelphia. Architect, Andrew J. Sauer & Co., 1505 Race street, Philadelphia. Owners, George W. Nock Co., 1304 Race street, Philadelphia. Reinforced concrete, brick, steel, 2 stories and basement, 90x70 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, ornamental iron work. Contract awarded George Kessler Contracting Co., 1733 North Marvine street, Philadelphia.

Residences (11), Krams and Pechin streets, Philadelphia. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, Octavia Hill Association, 613 Lombard street, Philadelphia. Brick, 2½ stories, electric light, carpentry and mill work, hardwood floors, tile work. Contract awarded Carl F. Hirsch, 1718 Cherry street, Philadelphia.

Delaware River Bridge, Contract No. 29C, Delaware River. Owners, Delaware River Bridge Joint Commission, Widener Building, Philadelphia. Fourth street abutment, Philadelphia, demolition of masonry construction, steel work and partition inside abutment. Contract awarded Mazzola & Marana, 739 South Seventh street, Philadelphia, $17,500.

Sunday School, Westview street and Greene street, Germantown, Philadelphia. Architect, Frank R. Watson, 1520 Locust street, Philadelphia. Owners, Summitt Presbyterian Church, Rev. F. M. Fox, 517 Westview street. Stone, brick, cut stone, steel, 3 stories and basement, 75x48 feet, black slate and slag roof, cement floors, steam heat, electric light, oil burner, metal lath, marble work, hollow metal doors, bond, iron stairs, ornamental iron work, dampproofing, metal casement, dumb waiters, plumbing, cinder block, limestone, flagstone, area gratings, celotex, galvanized iron pipe. Contract awarded H. J. Homan Co., Eighteenth and Cherry streets, Philadelphia.

Building, Ridge and Roxborough avenue, Philadelphia. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, William Freeland Kendrick Playground, Bureau of Recreation, City Hall, Philadelphia, Penna. Contract awarded Cody Const. Co., 4627 Frankford avenue, $151,000. Heating, Charles J. McCarthy, Otis Building, Philadelphia, $10,285. Plumbing, George W. Sandmann, Jr., 404 South Twentieth street, Philadelphia, $7,175.

Residence, West side Stokely street, South of Midvale avenue, Philadelphia, $19,000. Architect, private plans. Owner, F. Stapleton Ward, Jr., 3112 Midvale avenue, Philadelphia. Stone, 3 stories, 25x47 feet, slate roof, hardwood and pine floors, electric light, tile work. Contract awarded to Samuel Harting & Son, 20 East Johnson Street, Philadelphia.

Residence and Store (add.), 5316 Germantown avenue, Philadelphia, $5,000. Architect, private plans. Owner, John Young, on premises. Brick, 2 stories add., 19x38 feet, slag roof, pine floors, electric work. Contract awarded to Fred Elvidge & Sons, 5522 Germantown Avenue, Philadelphia.

Store and Storage Building (add. and alts.), 126 North Tenth street, $4,200. Architect, private plans. Owner, David Gould, 3859 North Seventeenth street, Philadelphia. Brick, 2 stories add., 16x35 feet, general alterations. Contract awarded to N. S. Hunsberger, 3711 South Ninety-first street, Philadelphia.

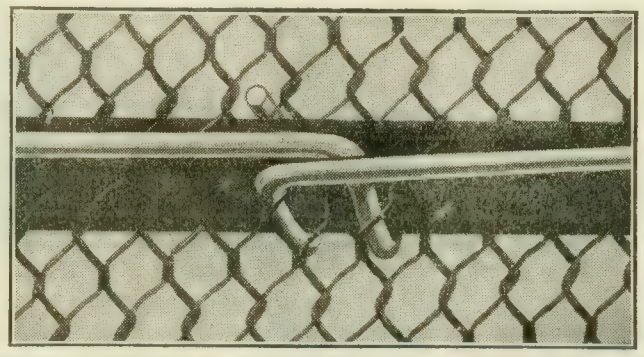
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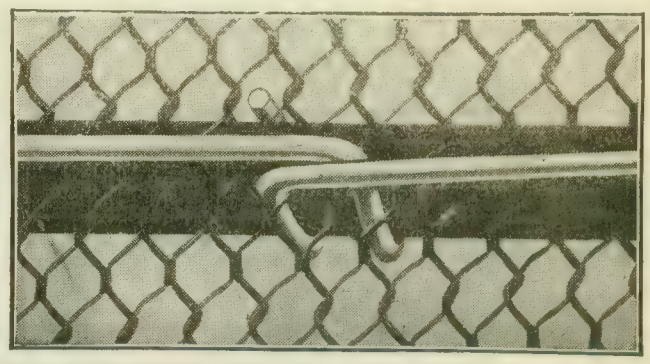
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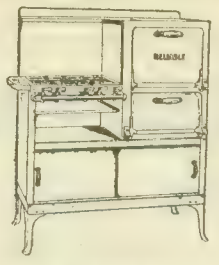
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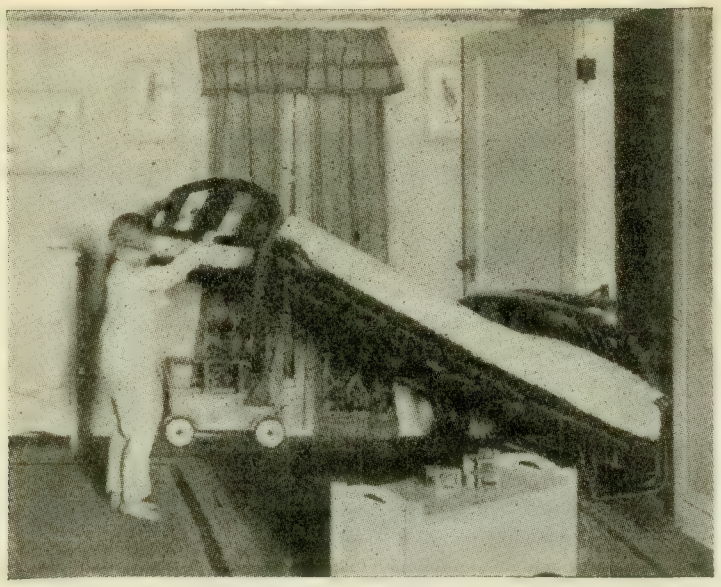
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second street, Philadelphia, $4,000. Architect, private plans. Owner, Joseph K. Marshall, on premises. General alterations. Contract awarded to Basch & Co., Inc., Ruan and Tackawanna streets, Philadelphia.

Apartment House, Southeast Corner Hortter and Greene streets, Philadelphia, $550,000. Owners, Del Mar Apartment Co., Chelten avenue and Morris street, Philadelphia. Brick, 8 stories, 105x41 feet, 52x49 feet, slag roof, hardwood and pine floors, electric light, tile work. Contract awarded to R. P. Whitty Co., Washington, D. C.

Stores (alts.), 6014-16 Master street, Philadelphia, $2,500 total. Architect, private plans. Owner, Samuel G. Whittaker, 1252 North Sixty-fourth street, Philadelphia. General alterations. Contract awarded to Joseph Schmidt, 750 North Taylor street, Philadelphia.

Residence (add.), 114 East Allegheny avenue, Philadelphia, $2,000. Architect, private plans. Owner, Dr. E. Tomlinson, on premises. Brick, third story add., 14x30 feet. Contract awarded to Clayton & Davidson, 2030 East Westmoreland street, Philadelphia.

Store, 3721 York road, Philadelphia, $5,000. Architect, private plans. Owner, Mrs. Sallie Gregory, on premises. Brick, 1 story, 20x43 feet, slag roof, pine floors, electric work. Contract awarded to Charles T. Clark, Germantown and Sedgley avenues, Philadelphia.

Residence and Store (alts.), 1810 Fairmount avenue, $5,000. Architect, private plans. Owner, William E. Tafer, 844 North Broad street, Philadelphia. General alterations. Contract awarded to A. Kopec, 988 North Fifth street, Philadelphia.

Church (add. and alts.), 655-559 North Sixteenth street, Philadelphia, $4,500. Architect, private plans. Owners, African Methodist Episcopal Union Church, on premises. Brick, 1 story add., 11x15 feet, general alterations. Contract awarded to M. G. Cook, 1927 West Dauphin street, Philadelphia.

Residence, North side Knorr street, East of Frontenac street, $3,800. Architect, private plans. Owner, William Moore, Stanwood and Frontenac streets, Philadelphia. Concrete block, 2 stories, 24x26 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Peter Heidt, Stanwood and Frontenac streets.

Residences (alts.), 4518 Lancaster avenue, Philadelphia, $3,000. Architect, C. Julius Klaus, York, Pa. Owner, Sarah F. Bear, York, Pa. General alterations. Contract awarded to W. L. Bear, York, Pa.

Storage (alts.), Southeast Corner Tasker and Delaware avenue, Philadelphia, $2,500. Architect, private plans. Owner, John H. Kelter, Tasker Street Wharf, Philadelphia. General alterations. Contract awarded to Otto Fisher, 1243 E. Susquehanna Ave., Phila.

Garage, 207-09 McClelland street, Philadelphia, $3,000. Architect, private plans. Owners, South Philadelphia Dressed Beef Co., 232-40 Moore street, Philadelphia. Brick, 1 story, 31x48 feet, slag roof, cement floors, electric work. Contract awarded to D. Wittenberg, 1519 North Thirty-third street, Philadelphia.

Store (add.), 114 East Girard avenue, Philadelphia, $2,700. Architect, private plans. Owner, Joseph H. Eddleman, 114 East Girard avenue, Philadelphia. Brick, second and third stories add., 16x35 feet, slag roof, pine floors. Contract awarded to Williamm Clidy, 1111 Brown street, Philadelphia.

Church (add. and alts.), 1818-24 Bainbridge streets, Philadelphia, $19,000. Architect, private plans. Owners, Holy Trinity Baptist Church, 1818 Bainbridge street. Brick, 3 stories, 12x14 feet, general alterations. Contract awarded to J. F. Trent, Nineteenth and Addison streets, Philadelphia.

Residences (4), 318-20-22-24 Levick street, Philadelphia, $20,000. Architect, private plans. Owners, Kermore & Karp, 2516 West Cumberland street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Samuel Karp, 2516 West Cumberland street.

Residence, North side Reed street, West of Patton street, Philadelphia, $6,000. Architect, private plans. Owners, Temple C. M. E. Church, Reed and Patton streets, Philadelphia. Brickk, 2 stories, 16x36 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to J. F. Trent, Nineteenth and Addison streets, Philadelphia.

Warehouse, Southwest Corner Lawrence and Wood streets, Philadelphia, $5,000. Architect, private plans. Owner, George I. Oberholtzer, 2628 North Fifth street, Philadelphia. Brick, 1 story, 15 feet 8 inches x 54 feet. Contract awarded to Frank H. Fitt, 5753 North Fifth street, Philadelphia .

Garage, South side Atlantic street, West of Mascher street, Philadelphia, $5,000. Architect, private plans. Owner, E. G. Gangloff, M. D., 169 West Tioga street, Philadelphia. Brick, 1 story, 117x49 feet, slag roof, cement floors, electric work. Contract awarded to Thomas Matthews & Sons, 2336 North Hancock street, Philadelphia.

Store (add. and alts.), 4312 Walnut street, Philadelphia, $5,000. Architect, private plans. Owner, George T. Sale, Liberty Building, Philadelphia. Brick, 1 story add. ,16x11 feet, general alterations. Contract awarded to Rush Brothers, 4842 Darrah street, Philadelphia.

Bank (add.), Southeast Corner Broad and Cambria streets, Philadelphia, $4,000. Architect, private plans. Owners, Central National Bank, on premises. Vault. Contract awarded to J. S. Cornell & Son, 1528 Cherry street, Philadelphia.

Garage, South side Paschall avenue, West of Fiftieth street, Philadelphia, $60,000. Architect, private plans. Owner, Henry W. Breyer, Forty-third and Woodland avenue, Philadelphia. Brick, 1 story, 80x396 feet, slag roof, cement floors, electric work. Contract awarded to W. F. Koelle & Co., 2601 West Oxford street, Philadelphia.

Store, 4218-20-22 Park avenue, Philadelphia, $25,000. Architect, private plans. Owners, North Philadelphia Sales Co., 4216 North Broad street, Philadelphia. Brick, 2 stories, 55x74 feet, slag roof, pine floors, electric light. Contract awarded to Albert Dunlap, Jenkintown, Pa.

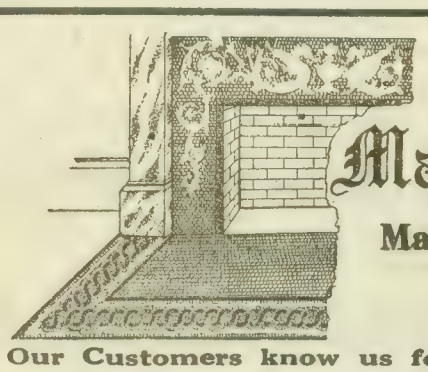
Residences (2), 1815-17 Bainbridge street, Philadelphia, $7,500 each. Architect, private plans. Owner, Clarence T. Allman, Seventeenth and Fitzwater streets, Philadelphia. Brick, 3 stories, 16x29 feet, 13x31 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Dobbins & Katz, 236 North Fifty-ninth street, Philadelphia.

Residence, South side Bleigh street, West of Tabor Road, Philadelphia, $5,000. Architect, private plans. Owners, Kaiser & Bour, 7438 Claridge street, Philadelphia. Brick, 2 stories, 17 feet 10 inches x 28 feet, slag roof, hardwood and pine floors. Contract awarded to Harry Gorelick, 2427 Douglas street, Philadelphia.

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Pennsylvania Construction News

Residence and Garage, Merion, Pa. Architect, S. W. Marshall, Weightman Building, Philadelphia. Owner, D. R. Wensz, care of Architect. Stone, 2½ stories and basement. Architect taking bids due Sept. 23rd.

Residence, Abintgon, Pa. Architect, private plans. Owner, W. J. Stevens, 1521 Real Estate Trust Building, Philadelphia. Stone, 2½ stories and basement, 44x50 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Owner taking sub-bids due Sept. 27th.

School, Kimberton, Pa. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, East Pikeland Township School Board, J. F. Smiley, Kimberton, Pa. Brick, steel, stone, 1 and 2 stories. Plans in progress.

Residence and Garage, Bryn Mawr, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, G. Herbert Taylor, Esq., Bryn Mawr, Pa. Stone, 2½ stories, 30x53 feet, 1 story, 18x22 feet, hardwood floors, electric light, tile and marble work. Plans in progress.

School No. 8, Scranton, Pa. Architect, A. P. Coon, Union Bank Building, Scranton, Pa. Owners, Scranton Board of School Control, J. Hughes, secretary, 425 Washington avenue, Scranton, Pa. Semi-fireproof, details undecided. Plans in progress.

Residence, Mountain Top, Pa. Architect, Edward Rutledge, Union Bank Building, Scranton, Pa. Owners, St. Catherine's Parish, Rev. Charles Murray, Mountain Top, Pa. Frame, 1½ stories, 46x34 feet, asbestos shsingle roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Charles Sumner Grade School (add.), Scranton, Pa. Architect, not yet selected. Owners, Scranton Board of School Control, Frank T. Magovern, president, 425 Washington street, Scranton, Pa. Supervising architect, Tudor Williams, Scranton Life Building, Scranton. Brick, stone, 2 stories and basement (8-room add.). Too early for details.

Robert Morris Grade School (add.), Scranton, Pa. Architect, not yet selected. Supervising architect, Tudor Williams, Scranton Life Building, Scranton, Pa. Owners, Scranton Board of School Control, Frank T. Magovern, president, 425 Washington avenue, Scranton, Pa. Brick, 2 stories and basement, stone. Too early for details.

James Madison School (add.), Scranton, Pa. Architect, not yet selected. Supervising architect, Tudor Williams, Scranton Life Building, Scranton. Owners, Scranton Board of School Control, Frank T. Magovern, president, 425 Washington avenue, Scranton, Pa. Brick, stone, 20-room add. Too early for details.

Grade School No. 27, Scranton, Pa. Architect, A. P. Coon, Union Bank Building, Scranton, Pa. Owners, Scranton Board of School Control, J. Hughes, secretary, 425 Washington avenue, Scranton, Pa. Semi-fireproof, 2 stories, 8 rooms, built-up roof, maple floors, hollow tile, safety treads, roof ventilators, bonr, rolled steel skylights, metal lath (heating, plumbing and electric separate). Plans in progress.

Bridge, over Susquehanna, between Watsontown and Whitedder, Pa. Engineer, J. B. Long, Norristown, Pa. Owners, Northumberland & Union County Commission, Lewisburg, Pa. Reinforced concrete, steel. Engineer selected. Work contemplated.

Stores (2), Apartments (4) (add.), Wilkes-Barre, Pa. Architect, H. A. Maier, Coal Exchange Building, Wilkes-Barre, Pa. Owner, O. H. Maier, care of architect. Brick, 3 stories, 38x77 feet, slag roof, hardwood floors, steam heat, electric light. Architect ready for bids.

Church and Sunday School (alts. and add.), Minersville, Pa. Architects, Charles W. Bolton & Son, Schaff Building, Philadelphia. Owners, Minersville Reformed Church, Rev. O. R. Frantz, Minersville, Pa. Brick, general interior and exterior alterations. Owners will build and is subletting.

Residence, Easton, Pa. Architect, William M. Michler, Drake Building, Easton, Pa. Owner, Charles H. Knight, Sullivan street, Easton, Pa. Brick, 2½ stories, 80x33 feet, 24x40 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress.

Residences (2), Parkside, Chester, Pa. Architect, Frank C. Watson, Crozer Building, Chester, Pa. Owner, name withheld. Brick, stucco, 3 stories, 20x32 feet each, shingle roof, hardwood floors, hot water heat, electric light, tile work, garages, 1 story, 12x18 feet. Plans completed. Architect taking bids .

Fraternity House, State College, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Thera Kappa Phi Fraternity, State College, Pa. Stone, structural steel, 3 stories, 120x34 feet, slate roof, oak floors, cut stone, iron work, tile work, electric light (heating reserved). Architect taking bids due September 24th.

Residence (alts. and add.), Haverford, Pa., $100,000. Architects, Zantzinger, Borie & Medary, Otis Building, Philadelphia. Owner, John B. Thayer, Haverford, Pa. Hollow tile and stucco, 2½ stories and basement, 50x90 feet, slate or shingle roof, oak and pine floors, hot water heat, electric light, tile work, metal lath, rolled steel sash, ornamental iron work, flagstone. Architects taking bids due as soon as possible.

Swimming Pool, Haverford, Pa. Architect, R. L. Colton, 1520 Locust street, Philadelphia. Owner, Boyd Lee Spahr, on premises. Plumbing, brick work, flagstone, stone work, integral waterproofing. Architect taking bids due September 23rd.

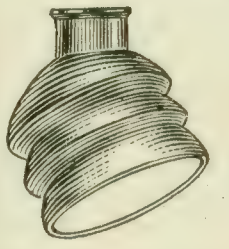
Junior and Senior High School, First and Center streets, Bloomsburg, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, Board of School Directors, R. A. McCachran, Columbia County Trust Company Building, Bloomsburg, Pa. Owners taking bids due September 27th, 5 P. M. (Standard Time).

Sewer, Norristown, Pa. Engineer, S. C. Corson, Norristown, Pa. Owners, Borough Sewer Committee, J. A. Rhoades, 544 Hamilton, Norristown. 8-inch vitrified pipe sewer, Jefferson street and Ferry avenue, from North sidewalk Main street, with all Y's, T's, branches, laterals, to curb lines, manholes and flush tanks. Certified check, 5 per cent., to order of Harry P. Hiltner. Owners taking bids due September 29th, 7.30 P. M.

Bottle Works, Wilkes-Barre, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owner, John Finn, National Bottling Works, Miners Mills, Pa. Brick, steel, 2 stories, 32x42 feet, asphalt roof, concrete floors, steam heat, electric light, rolling steel doors, fire doors. Owners ready for bids.

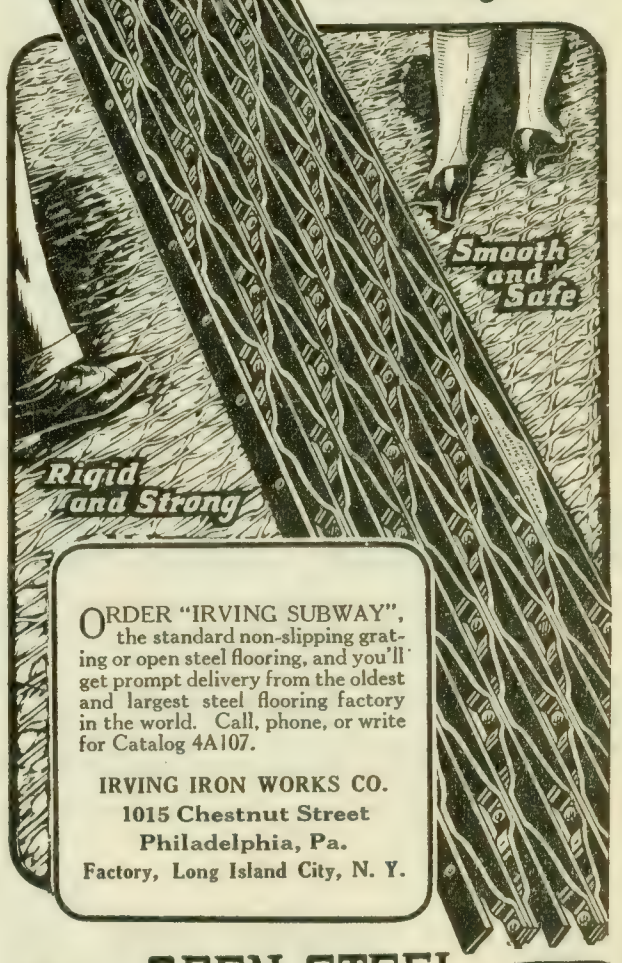
School, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart School, Father Fink, Allentown, Pa. Brick, stone, steel, 3 stories, 66x120 feet, built-up roof, hardwood floors, hollow tile, safety treads, roof ventilators, waterproofing, dampproofing, ornamental iron, iron stairs, fire doors, steel sash, metal lath (heating, plumbing and electric separate). Architects ready for bids.

Bank (add.)), Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Bethlehem Trust Co., Broad and Main streets, Bethlehem, Pa. Granite, concrete, steel, 1 story, 40x50 feet, heating extension, electric light, marble, bronze, ornamental iron, terra cotta. Architect ready for bids.



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Bank Building, Garrett road, Upper Darby, Pa. Architects, McKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Suburban Title & Trust Co., care of George Wilcox, Upper Darby, Pa. Brick, steel, limestone, 2 stories. Plans in progress.

High School, Warrior Run, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Warrior Run School Board, G. W. Harrison, Warrior Run, Pa. Steel, brick, stone, limestone, 2 stories and basement, slag roof, concrete and hardwood floors, metal ceilings, terra cotta, fire escape, bond, skylights, metal lath (heating, plumbing and electric separate). Owners taking bids.

Garage, Kirlin street, near Upland Bridge, Chester, Pa. Architect, Frank C. Watson, Chester, Pa. Owner, Frank Mahoney, on premises. Brick, 2 stories, 60x80 feet, slag roof, cement floors, ramps, hot water heat, electric light, metal sash and frames, plate glass. Architect taking bids.

Residence, West Chester, Pa. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, David M. McFarland, care of architect. Stone, 2½ stories (plumbing, heating, electric reserved), slate roof, hardwood floors, tile work. Architect taking bids due September 25th.

Central Heating Plant, Delaware County Poor Farm, Lima, Delaware County, Pa. Engineer, S. C. Hollister, Media, Pa. Owner, Delaware County Poor District, G. T. Wadas, Media, Pa. Low bidders: Hood & Gross, 1535 Chestnut street, Philadelphia, $10,995; N. M. Holden, Chester, Pa., $13,395. Electric, H. A. Hynes, Chester, Pa., $1,572. Plumbing, B. L. Marker, Chester, Pa., $1,695. Equipment, American Laundry Machinery & Equipment Co., 3846 Lancaster avenue, Philadelphia, $5,205.

Road Work, Pennsylvania. Owners, Department of Highways of Pennsylvania, Harrisburg, Pa. Low bidders on road work opened September 15th, 1926:

Clarion County, R-66, A-4367, Clarion and Limestone Townships. One course reinforced concrete. W. C. Quick & Co., Brookville, Pa., $75,277.75.

Schuylkill County, R-417, A-4131, North Manheim and Wayne Townships, Cressona Borough. One course reinforced concrete. David Schoentag, Inc., Saugerties, N. Y., $131,767.85.

Erie County, R-495, A-4377, Lawrence Park Township. Bituminous surface course on concrete base course. J. & M. Doyle Co., Erie, Pa., $34,150.35.

Lebanon County, R-140-141, A-4309, Bethel Township. One course reinforced concrete. L. L. Risser, Lebanon, Pa., $139,946.09.

Franklin County, R-340, A-3840, Letterkenny Township. One course reinforced concrete. Leseer Long Co., Hagerstown, Md., $43,374.58.

Westmoreland County, R-120, Sec. 1a, 1b, 2a, Hempfield and North Huntingdon Townships. One course reinforced concrete. Edwards Dunn Co., Inc., Greensburg, Pa., $108,543.54.

Washington County, R-247, Sec. 10, A-4094, 4095, Carroll and Fallowfield Townships, Noreh Charleroi Borough. One course reinforced concrete. J. F. Patterson, trading as Donora Const. Co., Donora, Pa., $199,628.15.

Cambria County, R-276, Cresson Township. One course reinforced concrete. Clark Brothers Const. Co., Cherry Tree, Pa., $76,390.63.

Indiana County, A-796, Black Lick Township. One course reinforced concrete. R. H. Cunningham & Sons Co., Turtle Creek, Pa., $180,325.55.

Blair County, A-3583, Allegheny Township. One course reinforced concrete. Lincoln Const. Co., Strafford, Pa., $23,485.40.

McKean County, R-211, Foster Township. One course reinforced concrete. Fred D. Ross, Bradford, Pa., $132,041.91.

Luzerne County, R-5, DuPont Borough. One course reinforced concrete. B. G. Coon Const. Co., Luzerne, Pa., $73,963.37.

Allegheny County, R-181, A-1058-A, Forward Township. One course reinforced concrete. Donora Const. Co., Donora Pa., $53,610.22.

Lehigh County, R-158, "Spur" Upper Milford and Lower Macungie Townships, Macungie Borough. One course reinforced concrete. Smith-Fenstermacher Co., Allentown, Pa., $45,153.78.

McKean County, R-277, A-3962, Keating and Norwich Townships. Bituminous surface treated macadam. D. L. Dennis, Galeton, Pa., $188,160.63.

Bradford County, R-13, A-4207, Terry Township. Bituminous surface treated macadam. D. L. Dennis Co., Galeton, Pa., $50,527.13.

Pennsylvania Contracts Awarded

Hotel (alts. and add.), Sixth and Penn streets, Pittsburgh, Pa. Architects, Webber & Wurster, 1530 Locust street, Philadelphia. Owners, Roosevelt Hotel Co., on premises. Brick, steel, concrete, 13 stories, 160x72 feet, slag roof, hardwood and reinforced concrete floors, hollow tile, elevators, steam heat, electric light, metal lath, tile and marble work, ornamental iron work. Contract awarded Landau Brothers Const. Co., 125 First avenue, Pittsburgh, Pa.

Residence, Spring Mill and Conshohocken roads, Lower Merion, Montgomery County, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, L. Rodman Page, care of architect. Stone, half timber, 2½ stories, 40x100 feet, oak and rubber tile, pine floors, flagstone, soapstone, sandstone, shingle roof, steel sash, steam heat, electric light, tile bath, metal lath, brass pipe, craftex, plumbing, linoleum floors. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia.

Store Building, Tamaqua, Pa. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Owner, Edward J. Jennings, Tamaqua, Pa. Brick, steel, 3 stories, 52x150 feet. Contract awarded to Tamaqua Const. Co., Tamaqua, Pa.

Residence No. 9, Haverford, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, brick, 2½ stories and basement, 38x54 feet, slate roof, oak, pine and cement floors, tile work, ornamental iron work, Robinson flagging. Contract awarded John E. Kearney, Wynnewood, Pa.

Stores, Springfield, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, H. J. Rittenhouse, Fifty-third and Pine streets, Philadelphia. Brick, steel, 2 stories and basement, 20x45 feet, slag roof, pine floors, steam and hot ai rheat, electric light, metal lath, tile work, ornamental iron work. Contract awarded J. H. Dawson & Son, Folcroft, Pa.

Excavation for Hotel, Pottsville, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Community Hotel Co., Pottsville, Pa. General contractors, Day & Zimmerman, 1600 Walnut street, Philadelphia. Contract for excavation awarded to Gordon Nagle, Pottsville, Pa.

Residence, Yeadon, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Howard Swope, Fifth and Main streets, Darby, Pa. Stone, frame, 2½ stories, 40x40 feet, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded Gotshall & Ralston, Darby, Pa.

Residence, Hatboro, Pa. Architect, Charles R. Parker, 1120 Locust street, Philadelphia. Owner, Mrs. Evelyn Brelun, Hatboro, Pa. Stone, 2½ stories, hot water heat, electric

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light, tile and marble work, shingle roof, hardwood floors. Contract awarded Ramsey R. Dudbridge, Hatboro, Pa.

School No. 3, Carbondale, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Carbondale School Board, T. Curran, Carbondale, Pa. Brick, steel, maple floors, slag roof, roof ventilators, ornamental iron, stele sash (plumbing, heating and electric separate. Contract awarded to P. F. Caviston, Carbondale, Pa.

School No. 7, Carbondale, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Carbondale School Board, T. Curran, Carbondale, Pa. Brick, maple floors, slag roof, ornamental iron (plumbing, heating and electric separate). Contract awarded to Delaney & Judge, Carbondale, Pa.

New Tank Shop, Altoona, Pa. Architects, Office of Chief Engineer, W. H. Cookman, Broad street, Philadelphia. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. Brick, steel, 2 stories and basement, 178x32 feet, slag roof, pine and cement floors. Contract awarded Building & Industrial Const. Co., 403 Penn street, Pittsburgh, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Westmoreland County, R-302, A-4129, St. Clair Township. One course reinforced concrete. Contract awarded to A. R. Cooper, Hookstown, Pa., $63,001.84.

New Jersey Construction News

Garage (ramp style), Mississippi and Pacific avenues, Atlantic City, N. J. Architect, A. F. Amodio, Commerce Building, Atlantic City, N. J. Owner, Beck Dorf, 15 Park Row, New York. Steel, concrete, brick, 6 stories, 100x100 feet, concrete roof and floors, (1) elevator, waterproofing and dampproofing, ornamental iron, iron stairs, fire doors, steel sash, electric light. Sketches in progress.

Warehose, Atlantic City, N. J. Architect, A. F. Amodio, Commerce Building, Atlantic City, N. J. Owner, Beck Dorf, 15 Park Row, New York. Concrete, steel, brick, 8 stories, 60x100 feet, concrete roof and floors, elevators, (2) roof ventilators, waterproofing and dampproofing, iron stairs, floor hardener, fire doors, rolled steel sash, tile and marble, vapor heat, electric light. Sketches in progress.

Church and Sunday School, Atlantic City, N. J., $150,000. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, First Baptist Church, Rev. H. Vernon Howley, 17 South Madison avenue, Atlantic City, N. J. Brick, stone, 1 and 3 stories, 63x85 feet, 83x63 feet, slate roof, hardwood floors, oil burner, electric light, metal lath, tile and marble. Plans in progress.

Rectory (add. and alts.), Pleasantville, N. J. Architect, A. F. Amodio, Commerce Building, Atlantic City, N. J. Owners, St. Peter's Roman Catholic Church, Rev. J. F. McCallion, Pleasantville, N. J. Brick, stucco, 3½ stories, 18x60 feet, tile roof, hardwood floors, electric light, plumbing, tile work. Plans in progress.

Apartment, Atlantic City, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Henry Freeman, Atlantic City, N. J. Brick, steel, 3 stories, 72x105 feet, slag roof, hardwood floors, hollow tile, tile work, metal lath, hot water heat, electric light. Owner taking sub-bids.

Municipal Building, Maple Shade, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Chester Township Commission, Charles J. Meyers, 328 Market street, Camden, N. J. Brick, hollow tile and concrete, block, 2 stories and basement, 40x70 feet. Plans about completed. Owners will be ready for bids in one week.

Apartment House, Baltic avenue, between New York and Kentucky, Atlantic City, N. J. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owners, Liberty Apartment Hotel Corporation, Atlantic City, N. J. Brick, steel, concrete, 5 stories, 75x200 feet, tile and slag roof, steam heat, electric light, metal lath, tile and marble work, elevators (2)), oil burners. Alexander Nedelman, 400 Guarantee Trust Building, Atlantic City, N. J., taking sub-bids.

Hall, Stores (2) and Apartment, South Missouri avenue, Atlantic City, N. J. Architect, A. F. Amodio, Commerce Building, Atlantic City, N. J. Owners, Garibaldi Legion, No. 1, A. M. Ruffu, 2024 Atlantic avenue, Atlantic City, N. J. Steel, concrete, brick, 2 stories, 43x90 feet, slate roof, maple floors, metal ceilings, ornamental iron work, marble work, terrazzo floors, vapor heat, electric light. A. M. Ruffu, Jr., 2024 Atlantic avenue, Atlantic City, N. J., taking sub-bids.

Residence (alts. and add.), Sea Isle City, N. J. Architects, Watts & Coscia, Liberty Building, Philadelphia. Owner, Nicola Vitullo, care of architect. Frame, 2½ stories, 14x26 feet, shingle roof, linotile and hardwood floors, hot water heat, electric light, plumbing, asbestos shingle sidings. Plans about completed. Architects will be ready for bids from local builders in a few days.

Club House, Ventnor, N. J. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owners, Hacienda Del Mar (Bala Club), 422 Widener Building, Philadelphia. Details undecided. Preliminary plans in progress.

Power House, New Jersey Training School for Feeble Minded, Totowa, N. J., Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, reinforced concrete, limestone, steel, 1 story and basement, 94x48 feet, slag roof, cement floors, roof ventilators, integral waterproofing, dampproofing, ornamental iron, iron stairs, bond, kalamein and hollow metal doors, steel sash, steel rolling doors (plumbing, heating and electric separate). Certified check, 5 per cent. Owners taking bids due September 27th.

Fire House (alts. and add.), New Jersey State Hospital for Insane, Greystone Park, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Commissioner, State House, Trenton, N. J. Brick, architectural terra cotta, reinforced concrete, steel, limestone, stucco, 2 stories and basement, 66x32 feet, slate roof, cement floors, integral waterproofing, ornamental iron, iron stairs, floor hardener, bond, marble, metal lath, mastic floors, painting, glazing. Certified check, 10 per cent. Owner taking bids due Sept. 23rd at 1 P. M. (S. T.)

Store (alts.), 17 North Laurel street, Bridgeton, N. J, Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owner, P. Rovner, 17 North Laurel street, Bridgeton, N. J. Underpinning, waterproofing, mill work, store in basement, plate glass, metal lath. Architect taking bids at owner's office, September 27th, 1 P. M.

School, Eighth and Jackson streets, Camden, N. J. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Board of Education, Camden, N. J. Low bidders: H. John Homan Co., 18th and

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Cherry streets, Philadelphia, $250,000; George H. Evans, 1416 Vine street, Philadelphia, $253,500.

Schools (2) (add.), Burlington, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton. Owners, Board of Education of Burlington Township, N. J. Low bidders on Springside School: Charles S. Moses, Edgewater Park, N. J., $43,000; plumbing, L. Hunt, Burlington, N. J., $1,361; heating, J. Irvin, Burlington, N. J., $5,644; electric, W. L. Gaunt, Burlington, N. J., $650. Shedaker School: Scalzi Mancuso, Trenton, N. J., $25,216; electric, W. L. Gaunt, Burlington, N. J., $625; heating, Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $4,100; plumbing, L. Hunt, Burlington, N. J., $1,087.

Nurses' Home, Trenton, N. J., and Skillman, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Low bidders on Trenton: C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., $71,513; plumbing, J. T. Evans, Wilkes-Barre, Pa., $9,086.38; heating, J. T. Evans, Wilkes-Barre, Pa., $4,050.81; electric, Jackson Brothers, Trenton, N. J., $2,438. Low bidders on Skillman: C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., $64,841; plumbing, J. T. Evans, Wilkes-Barre, Pa., $8,254.92; heating, J. T. Evans, Wilkes-Barre, Pa., $2,556.30.

Laundry, Dining Hall and Kitchen, Totowa, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, State of New Jersey, Department of Institutions and Agencies, Trenton. Low bidders: Bowe & Millimet, West New York, N. J., $33,700. Plumbing, J. T. Evans, Wilkes-Barre, Pa., $2,648. Heating, J. T. Evans, Wilkes-Barre, Pa., $3,528.37.

Highway Work, New Jersey. Owners, State Highway Commission, Broad Street Bank Building, Trenton, N. J. Construction on extension of State Highway, Routes 2, 3 and 6, to Delaware River Bridge, Entrance Road, Sec. 1A, 2A, 3A and Connecting Road, Sec. 3A, 4A, Camden County. Deposit, $10. Certified check, 10 per cent. Owners taking bids due October 4th at noon (Standard Time).

Store and Apartment, 11th and Boardwalk, Ocean City, N. J., $100,000. Architect, C. E. Wunder, 1520 Locust St., Philadelphia. Owner, C. Marsh, care of Architect. Brick, reinforced concrete, stone, 200 feet beach front. Preliminary plans in progress.

New Jersey Contracts Awarded

Building (add), 521 Cooper Street, Camden, N. J., $11,500. Architect, Ernest L. Ergood, 320 Market Street, Camden, N. J. Owners, Patrick Harding and John Kates, Camden, N. J. Brick, 2 stories, 20x48 feet, slag roof. Contract awarded to John Gibson, 611 Bailey St., Camden, N. J.

Store and Residence, 3427 Harrison Ave., Camden, N. J., $2,000. Architect, private plans. Owner, D. F. Harrigan, Camden, N. J. Frame, 1 story, 20x34 feet, slag roof, pine floors, warm air heat, electric light. Contract awarded to S. Levy, 1214 Kaighn Avenue, Camden, N. J.

Garages (2), 418 Sycamore Street, Camden, N. J., $1,250. Architect, private plans Owner, Laura E. Butt, 415 W. Price St., Philadelphia. Block, 1 story, 10x24 feet, slag roof, cement floors, electric work. Contract awarded to Wm. Wrifford, 724 Washington St., Camden, N. J.

Bank Building, Moorestown, N. J. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Burlington County Trust Co., P. Hopkins, Moorestown, N. J. Reinforced concrete, brick, steel, granite, limestone, 2 stories and basement, 59x93 feet, composition and slag roof, oak, pine and cement floors, hot air heat, electric light, metal lath, fire doors, shoring, waterproofing, iron stairs, ornamental iron work, bronze work, acoustical work, rubber flooring, bluestone, area gratings, bronze work, plumbing, metal furniture and equipment, dumb waiters, caulking, linoleum floors. Contract awarded Roberts & Roller, 1700 Walnut street, Philadelphia.

Schools (2), Bettlewood and Gloucester Heights, N. J. Architect, Charles R. Peddle, 136 South Fourth street, Philadelphia. Owners, Board of Education, Haddon Township, Camden County, N. J. Contracts awarded: Bettlewood School—M. C. Pennell, Merchantville, N. J., $59,000. Gloucester Heights School—M. C. Pennell, Merchantville, N. J., $27,400.

Bank (add.), Riverside, N. J. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owners, First National Bank, Riverside, N. J. Brick, precast stone, 2 stories, 60x30 feet (plumbing, heating and electric reserved), vapor heat, marble work. Contract awarded Lloyd Cross, Delanco, N. J. Architect taking bids on heating, plumbing and electric due September 24th.

Sales Room and Office Building, New Brunswick, N. J. Architect, R. A. Schumann, 202 West State street, Trenton, N. J. Owner, Elwood E. Waller, New Brunswick, N. J. Brick, steel, 2 stories and basement, 67x166 feet, Johns Manville roof, concrete, maple and terrazzo floors, hollow tile, plate glass, steam heat, electric light, metal lath, tile and marble, rolled steel sash, fire doors, plate glass, bronze, iron stairs. Contract awarded to Thomas H. Flynn, New Brunswick, N. J.

Labor Tract School, Hamilton Township, N. J. Architect, William A. Klemann, First National Bank Building, Trenton. Owners, Hamilton Township School Board, W. A. Robinson, Greenwood School, Trenton, N. J. Brick, steel, 2 stories and basement, 146x128 feet, slag roof, maple floors. Contract awarded to Anthony Tucci, 449 Hamilton avenue, Trenton. Heating to Trenton Plumbing & Heating Co., 366 South Broad street, Trenton, N. J. Plumbing to Piper Brothers, 340 North Broad street, Trenton, N. J. Electric to Mercer Electric Co., Fitzcharles Building, Trenton, N. J.

Church, Flemington, N. J. Architects, W. W .Slack & Son, Trenton Trust Bldg., Trenton, N.J. Owners, Flemington Baptist Church, Dr. Wilson, Flemington, N. J. Brick, steel, 1 story and balcony, 45x100 feet, slate roof, maple floors, hollow tile (heating, plumbing and electric reserved), metal lath. Contract awarded to Fred Parker, 327 Calhoun street, Trenton, N. J.

Factory, Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Schammell China Co., Trenton, N. J. Brick, steel, 2 stories, 145x47 feet, slag and concrete roof, concrete floors (heating, plumbing and electric reserved), tile work, metal lath, steel sash, fire doors, iron stairs. Contract awarded to William Hicks, 19 South Westfield street, Trenton, N. J.

School, Aura, N. J. Architects, Hill & Gollner, Broad Street Bank Building, Trenton, N. J. Owners, Elk Township School Board, care of architects. Brick, steel, 2 stories, 135x60 feet, slate roof, maple floors, hollow tile, safety treads, roof ventilators, concrete stairs (heating, plumbing and electric separate). Contract awarded to Russell Daub, Harrisonville, N. J., $47,701. Plumbing to C. Voellker, Glassboro, N. J., $1,924. Heating to Harry Knecht, West Collingswood, N. J., $6,649. Electric to Merit Electric Co., 630 Race street, Philadelphia, $786.

Church, Highland Park, New Brunswick, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owners, All Saints' Church, New Brunswick, N. J. Brick, hollow tile, 1 story and basement, 88x38 feet, slate roof, ~~maple~~ floors, electric light, oil burner, leaded glass. Contract awarded to Thomas Day & Son, Day Building, Trenton, N. J.

Building, Pershing and Everett streets, Camden, N. J., $4,000. Architect, private plans. Owners, Stanton Forge Co., on premises. Block, 1 story, 30x53 feet, rubberoid roof, electric light. Contract awarded to Lewis T. West, Fifth and Royden streets, Camden, N. J.

Store Room (add.), 910 Broadway, Camden, N. J., $4,000. Architect, private plans. Owner, Samuel Heine, on premises. Block, 1 story add., 20x62 feet, slag roof, electric light, steam heat. Contract awarded to Hensgen Brothers, Inc., 1140 Mechanic street, Camden, N. J.

Garages (9), 18 North Thirty-fifth street, Camden, N. J., $2,000. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, E. H. Huston, 18 North Thirty-fifth street, Camden, N. J. Block, 1 story, 10x18 feet, slag roof, cement floors, electric work. Contract awarded to Wesley H. Bauck, Twenty-seventh and Cramer streets, Camden, N. J.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Route 7, Sec. 7 and 6, grading, Freehold to Hightstown in Monmouth, Mercer and Middlesex Counties. Contract awarded to Decker & Canning, Newark, N. J., $96,472.57.

Miscellaneous Construction News

Hospital Building, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Homeopathic Hospital, 1501 Van Buren street, Wilmington, Del. Steel, concrete, fireproof construction. Architect taking bids due September 24th at noon.

Miscellaneous Contracts Awarded

Store Building, 21 West Thirty-eighth street, New York City. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owners, Lane Bryant Co., on premises. General interior alterations. Contract awarded Gabler Const. Co., 402 Hudson street, New York.

Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., September 13, 1926. Sealed Proposals will be opened in this office at 3 P. M., October 5, 1926, for remodeling and enlarging the United States Post Office at McKeesport, Pa. Drawings and specifications may be obtained from the Custodian, or at this office, in the discretion of the Supervising Architect. James A. Wetmore, Acting Supervising Architect.

(Continued from page 600)

Plaster—There are several materials which may be used for interior plastering. Lime or gypsum are used most frequently. The suggestions which follow refer directly to lime, but if gypsum is used the proportions should be based on weight instead of volume. Detailed specifications are available from the National Lime Association, Washington, D. C. If quicklime is used it should be carefully slaked and screened into a water-tight box, where it should be allowed to soak or age from three days to two weeks. A longer time is even better. If hydrated lime is used, it should be soaked over night and the resulting putty or paste used as needed. Sometimes the hydrate is mixed directly with the sand and water to the proper consistency.

The mixture for the first or scratch coat should have one (1) measure (such as a shovel, bucket, box, wheelbarrow, etc.,) of lime putty or hydrate and one-fourth (¼) measure of Portland cement to three (3) measures of plastering sand. Three (3) pounds of loose cattle hair or fibre should be used with each 10 cubic feet of sand, and thoroughly mixed into the plaster. The plaster should be applied in such a way as to force enough material between the lath so that a good clinch or key is formed. The surface should be cross-scratched diagonally before the coat is dry. If wood lath are used, they must be nailed firmly to the studs and set about ⅜ of an inch apart. When the lath are spaced closer than ¼ inch there will be danger of the keys failing. If the wood lath has become dry before plaster is applied, it should be wet down before the first coat is put on. On metal lath lime plaster will effectively prevent it from rusting. The second or brown coat should contain the same amount of lime and sand as the first coat, but without Portland cement. No hair need be used in the second coat.

After this coat has been applied, time enough should be allowed for the house to dry out. If this is not done, there is a chance that the finish or white coat will crack. Plastering should be at least ¾ inch thick. For the finish coat, lime putty or paste should always be used and for the hard white finish, the putty should be gauged with Plaster of Paris in the proportion of about one (1) measure to every three (3) measures of lime putty. If a sand finish coat is desired, use three (3) measures of lime putty to three (3) measures of sand, gauged with one (1) measure of Plaster of Paris.

Never paint the white coat of plaster in less than a month after it has been applied. It may, however, be papered sooner. For plaster on concrete, brick, tile, concrete or cinder block, or gypsum block use the following proportions; The first coat should have about one (1) measure of lime putty or hydrate to two and one-half (2½) measures of sand, while the second coat should consist of one (1) measure of lime putty or hydrate to three (3) measures of sand. The surface to which the plaster is applied must be wet down first. The finish coat be mixed and applied as for lath backing. Plastering should be to at least five-eighths (⅝) inch grounds.

Stucco—An excellent stucco or exterior plaster may be obtained by using the following proportions: Mix thoroughly by volume three (3) measures of lime putty or hydrate, one (1) measure of Portland cement and ten (10) measures of sand for the first or scratch coat. Two (2) pounds of cattle hair or fiber should be mixed throughly with each ½ ton (about 10 cubic feet) of sand used. The thickness of the first coat should average ⅜ of an inch from the back of lath or beyond normal masonry lime. The second coat should be leaner than the first coat and may be mixed with the same proportions of lime and cement as the first coat but with thirteen (13) measures of sand, one (1) pound of hair or fiber being used in this coat. The thickness should also average ⅜ of an inch.

If the backing is wood or metal lath, a third or finish coat should be used. The proportions should be the same as the second coat, but with no hair or fiber. The thickness of this coat averages ⅛ to ⅜ inch according to kind of finish used.

In case the stucco is applied to a solid backing of brick, hollow tile, concrete, stone, concrete or cinder block, etc., it is customary to use only the first and second coats unless a pebble dash, rough coat or stipple finish is desired, which would require a third coat.

All stucco should be well worked, but should not be left with a slick, smooth surface.

Whitewash—The home builder can give a decorative touch to objects such as small structures, fences, cellars, ornamental stones for driveways, etc., by whitewashing. Whitewashes or cold water paints must be applied thin to obtain the best results. They should be applied with a large brush and the mixture spread on as evenly and quickly as possible. The lime paint may be prepared from either quicklime or hydrated lime and water, which has been allowed to soak before use with occasional stirring.

Various formulas are in common use for both exterior and interior work, which contain beside the lime, salt, casein or glue and sometimes formaldehyde.

A free pamphlet containing all the above formulas may be obtained by writing to the National Lime Association, Washington, D. C.

BRICK HOUSES ARE CHEAPER THAN ANY OTHER TYPE

Beginning practically on a par in first cost, they speedily outstrip all their rivals when the cost of upkeep is considered.

Does the home owner save money, under the cost of a substantial brick home, by accepting stucco construction over frame? This question arises in the minds of many persons about to build or buy a home. Builders in the city of Denver will tell you there is no saving. This is the result of a recent extensive cost survey made there by J. J. Stein, executive secretary of the Colorado Clay Products Association.

The average cost of 20 brick houses compared with the average cost of 16 houses finished with stucco over frame, showed that there was no difference in first cost. The difference in the ultimate cost would be, of course, entirely on the side of the brick house, due to its lower insurance rate, its superior resistance to heat and cold, and to its lower depreciation.

As a result of this investigation contractors, builders and realtors in general in the Denver district, who formerly built exclusively frame or frame and stucco houses, are turning to brick. This applies

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chiefly to the suburbs of Denver, because in the city proper, with the exception of a small area, only fireproof exteriors are permitted by the code.

Perhaps the greatest obstacle which the brick industry has to overcome in the home building field is the misapprehension as to cost. Builders who are accustomed to other types of construction, and are not inclined to change their methods, discourage their prospects from building with brick by giving exaggerated estimates of the difference in cost. Often many architects, in perfect good faith we assume, will tell their prospects that there is a cost difference of from 15 to 25 per cent between a brick home and a frame home of equal size.

Here is the very emphatic way to disprove any such estimate. This example was used in Denver.

A brick house which sold for $5,000, exclusive of the lot, required $785 for all of the brick, mortar and labor for the exterior walls, porches, garage, chimneys and fireplaces. Even if there is a 10 per cent. difference between the cost of frame and brick, deducting 10 per cent. from the brick house cost would give the frame cost at $4,500. Since the only difference between a frame and a brick house is in the exterior walls and heavier foundations, it would mean that the frame enclosure for the house could not cost more than $285 to maintain the 10 per cent difference.

Every carpenter builder in the United States knows that he could not furnish the studding, sheathing, paper, clapboards or siding, nails and two coats of paint for the outside walls of a house of this size for $285.

To state it another way: Let us suppose that a given house could be built in frame for $10,000. The carpenter contractor tells his prospect that it would cost 25 per cent. more to build this house in brick. That would mean that the brick enclosure walls and the added four inches of thickness of the foundation walls would have to cost $2,500 plus the cost of the frame enclosure wall completed and painted.

Allow that we give back to the carpenter contractor his studding, sheathing, paper, clapboards and paint. Still his estimate of $2,500 would be away out of line because the total cost for brick, mortar and labor for the enclosure walls would not exceed $1,500 anywhere in the United States. The actual difference in cost between a house of frame and brick, that would sell in frame for $10,000, would not be more than 5 per cent., and in many parts of the country there would be no difference at all. To paint such a frame house once in two or three years would cost at least $250. Thus it will be seen that with two paintings the difference in first cost is overcome. The owner of the frame house will go on painting every two or three years, while the owner of the brick house will find his painting bill reduced to an insignificant item for the infrequent painting of sash and trim only.

—*Building Economy.*

EXTERIOR COLOR

BY GERTRUDE WOODCOCK

When a visiting Englishman recently commented upon the drabness of the American landscape, many of the loyal took issue with him. It was a sorry day for them, however, for his critical comment opened their eyes to the colorless houses that dot our suburbs and line our city streets. In all truth they could not but agree with him, whether they would or no, for the houses themselves bore out his contention.

Stereotyped color schemes for houses are either a habit or a curse. For some unknown reason, people are afraid to depart from the conventional green and white or gray and white. A charming Colonial house painted white with green trim is most attractive, but two dozen houses, Colonial and otherwise, painted white with green trim, are something of a bore. This holds true, too, for other conventional color schemes.

The house that attracts the most notice is the one whose color scheme is a little different. This illustrates how accustomed we are to commonplace color combinations. A variation, however slight, challenges attention. Unusual color schemes distinguish a house. They set it apart from the herd. They have, also, a dollar-and-cents value, as every real estate man knows. The house with an original color treatment usually sells quicker and at a higher price than one that is commonplace.

Not long ago some real estate promoters erected a number of houses on a suburban development. The houses were frame, built in symmetrical rows and painted the usual white, buff, green and red. Despite the excellent location of the development and the unusual transportation facilities, these houses were ignored by home hunters. As promoters cannot live entirely on air, they promptly forget about the development and it became a deserted community.

A while later a painter motored past. He looked over the houses, thought a few thoughts—and the next day made a proposition to the promoters. He offered to repaint the houses at his own expense, —in payment for which he was to receive a small percentage of the sales price. An individual color scheme was selected for each house, yet all the combinations blended in together. In a short time sales began and one by one "sold" signs were hung out on the little houses.

This incident is indicative of one thing —that people like, appreciate and prefer homes that have color distinction. The predominance of colorless houses, therefor, must be laid to the fact that most home owners feel themselves incapable of selecting original schemes and instead, play safe.

By "original" color schemes I do not mean freakish or gawdy. Triteness is in worse taste than striking color ever could be. With all the colors of the rainbow at one's disposal, to say nothing of the infinite number of shades and tints, it is really astounding how people escape using them and prefer to paint their houses as forty-nine others are painted!

A frame house may have all the color in the world. Instead of the all too common white and green treatment. why not use cream with old blue for shutters, trim and roof? Gray with yellow trim is another pleasant combination, as is brown and neutralized orange, or gray trimmed with deep, bright blue.

Here are some color suggestions for the body of a frame house,—coffee, fawn, apricot, gray green, gray blue, Italian pink or lavendar gray. For the trim there are dozens of gay, bright colors like apple green, robin's egg blue, terra cotta, yellow and cobalt blue. The roof may be of the same or a different color from the trim. Purple, blue, black and unusual reds and greens may be used to good effect.

In selecting colors, durability is an item not to be sniffed at. As a general rule, warm colors stand up better than cold colors. Tints based on reds, browns and blacks are most durable, so that grays, slates, browns and rich yellows set the record for paint longevity.

The shingled house offers a different problem, as well as a different medium. The soft, blurred outline of shingles is better adapted to warm pleasant colors than to the sharp, clear tones that are used so successfully upon clapboarding. The shingle is one of the most picturesque of building finishes because of its shape and texture, and its susceptibility to varied and beautiful color effects.

Shingle stains are made to suit the rough, textural surface of shingles. The colors sink into the surface and stain all the fibres with a depth that resembles the "pile" of rich colored velvet.

(Continued Next Week)

When you stop to consider that the Guide reaches every week and is read by architects, builders, building owners, contractors and sub-bidders in every branch of building construction, you must perceive its unique importance as a medium for advertising with an appeal to that class Every copy reaches a live prospect.

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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 39
September 29, 1926

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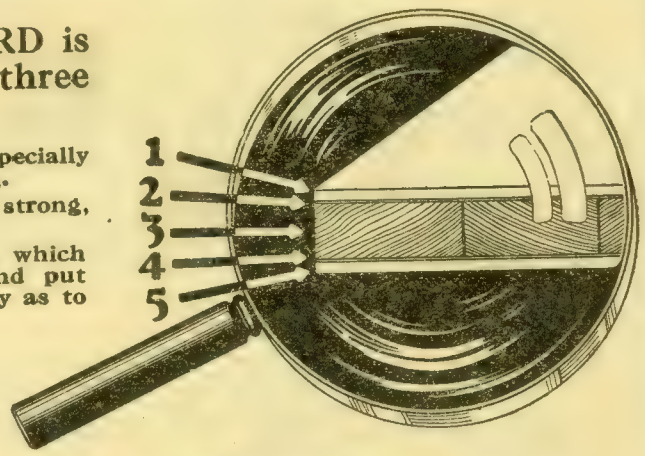
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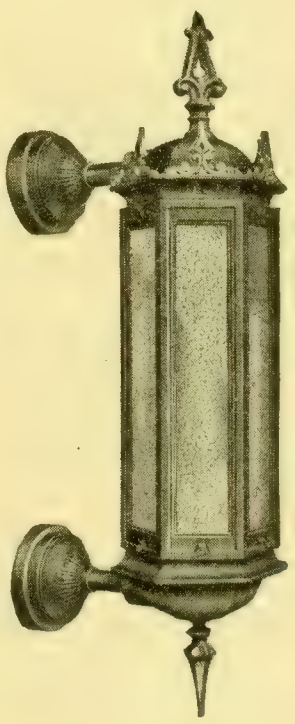
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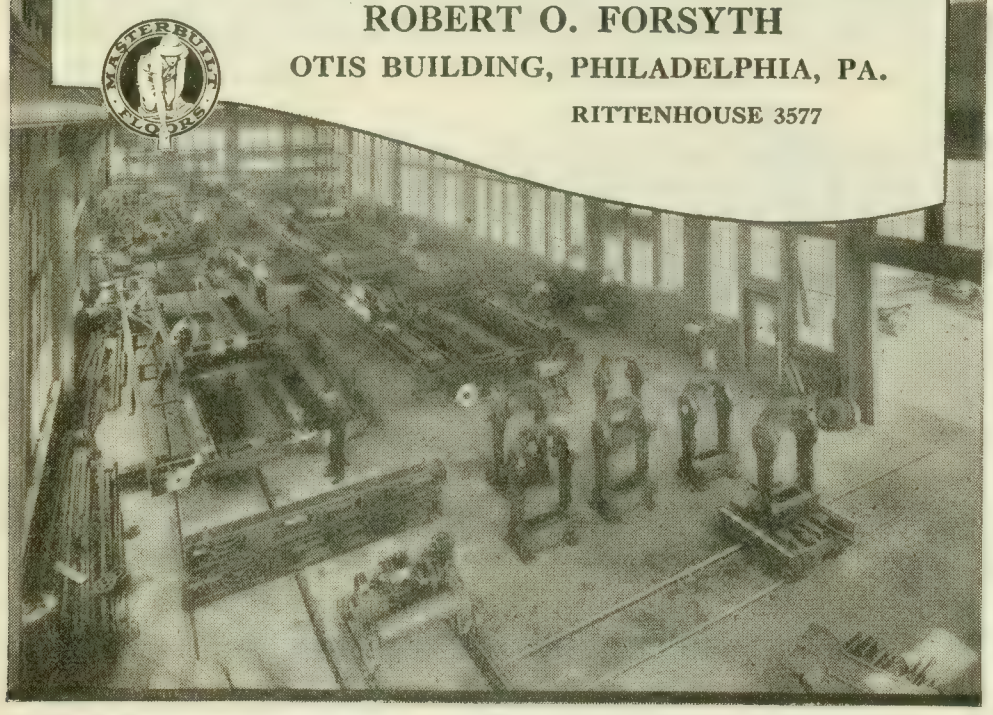
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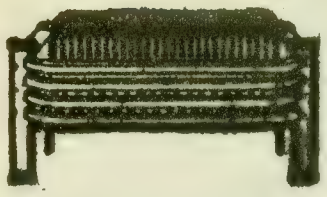
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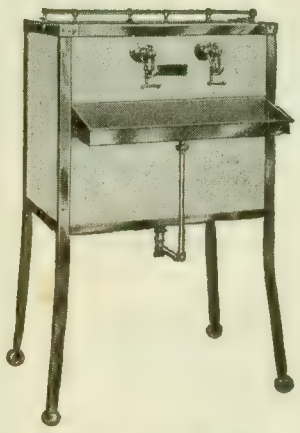
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 39

PHILADELPHIA
September 29, 1926

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As The Editor Sees It

BUILDING PERMITS

Reports to the Department of Labor and Industry from twenty Pennsylvania cities and boroughs show the volume of building construction for August, 1926, to be more than a million dollars less than for the same month in 1925. The total estimated cost of construction for which building permits were granted in these twenty municipalities in August, 1926, was $18,640,409 and for August, 1925, the total was $19,673,880, representing a decrease in August, 1926, of 5.3 per cent. Comparing the eight months' total of building cost in 1926, for the twenty localities, with the total for the corresponding period in 1925 it is found that building operations in 1926 are nearly $45,000,000, or more than 26 per cent. lower than in 1925.

For the month of August, 1926, reports were received from 39 muncipalities in the State. These reports show that permits were granted for the construction or alteration of 4,283 buildings at an estimated cost of $20,626,373. Two thousand five hundred and eighteen of the permits were issued for the construction of new buildings. The cost for each new building averaged approximately $7,000. The average cost of additions, alterations

ESTIMATED VALUE OF BUILDING PERMITS ISSUED IN PENNSYLVANIA, JANUARY TO AUGUST, INCLUSIVE.

City or Borough	Jan. to Aug. inclusive 1926		Jan. to Aug. inclusive 1925	
	No. of Bldgs.	Est. Cost	No. of Bldgs.	Est. Cost
Allentown	1,313	$ 5,321,900	1,181	$ 4,527,560
Altoona	1,199	2,256,725	1,355	2,394,294
Bethlehem	545	1,426,920	393	2,954,640
Bradford	250	569,554	304	565,335
Easton	284	1,759,015	287	1,993,446
Erie	1,475	3,746,575	1,668	6,082,332
Harrisburg	815	3,004,510	776	3,462,696
Lancaster	539	1,617,292	606	2,840,097
Meadville	103	689,891	120	762,370
New Castle	588	1,829,255	845	1,676,405
Oil City	327	332,510	510	1,028,673
Philadelphia	14,182	92,820,180	17,439	126,728,955
Pittsburgh	5,531*	28,106,466	5,943*	29,854,482
Reading	1,867	4,806,925	1,990	4,959,194
Scranton	1,060	4,128,041	1,241	5,407,312
Uniontown	70	345,210	136	1,219,136
Warren Borough	111	630,567	135	675,933
Wilkes-Barre	1,047	3,031,196	1,056	2,931,900
Willamsport	623	1,899,644	696	1,824,085
York	772	1,073,382	921	2,443,165
Total	32,701	$159,395,758	37,602	$204,332,009

*Number of permits—Buildings not given.

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or repairs to 1,765 buildings was $1,620. Eight of the twenty cities and boroughs for which comparable data is available show increases in volume of building over August of last year. These cities and their percentages of increase are Allentown, 102 per cent.; Bradford, 3 per cent.; Harrisburg, 28 per cent.; New Castle, 112 per cent.; Pittsburgh, 35 per cent.; Scranton, 8 per cent.; Uniontown, 259 per cent. and Williamsport, 72 per cent.

The volume of building reported for Philadelphia during August, 1926, was $9,701,435 or $250,000 less than in August, 1925. Other cities that report reductions varying from $100,000 to a half million dollars are Bethlehem, Easton, Erie, Lancaster, Reading, Williamsport and York.

Employment in building trades for the State during the month of August was approximately one per cent. lower than

(*Continued on page* 626)

ESTIMATED VALUE OF BUILDING PERMITS ISSUED IN CITIES AND BOROUGHS IN PENNSYLVANIA DURING THE MONTH OF AUGUST

City or Borough	1926 No. of Bldgs.	1926 Est. Cost	1925 No. of Bldgs.	1925 Est. Cost
Allentown	175	$ 760,125	165	$ 377,400
Altoona	143	222,433	145	260,481
Ambridge Borough*	31	188,600	...	.....
Berwick Borough*	5	10,200	...	.....
Bethlehem	77	119,135	66	867,575
Bradford	31	34,005	32	33,100
Bristol Borough*	2	650	...	.....
Carlisle Borough*	12	14,345	...	.....
Carrick Borough*	29	118,170	...	.....
Clairton*	28	47,215	...	.....
Coatesville*	28	172,000	...	.....
Connellsville*	7	4,325	...	.....
Donora Borough*	2	7,475	...	.....
Duquesne*	48	63,388	...	.....
Easton	49	169,754	42	249,457
Erie	173	604,275	263	1,015,085
Harrisburg	98	256,865	85	200,950
Hazleton*	40	181,953	...	.....
Johnstown*	67	158,410	...	.....
Lancaster	58	180,305	64	377,450
McKees Rocks Borough*	23	637,200	...	.....
Meadville	13	25,920	13	281,300
Monessen*	19	64,250	...	.....
Monongahela*	11	10,268	...	.....
New Castle	62	324,065	89	152,570
Oil City	45	17,852	60	379,411
Philadelphia	1,552	9,701,435	1,772	9,956,680
Pittsburgh	727	4,506,070	635	3,336,928
Pottsville*	41	133,550	...	.....
Reading	222	337,200	285	783,325
Scranton	115	691,092	136	637,561
Sunbury*	4	23,500	...	.....
Uniontown	13	40,600	3	11,300
Warren Borough	10	28,570	13	34,075
Washington*	15	21,165	...	.....
Wilkes-Barre	115	202,903	147	307,886
Wilkinsburg*	27	129,300	...	.....
Williamsport	79	315,989	75	182,492
York	87	101,816	104	228,854
Total	4,283	$20,626,373	4,194	$19,673,880
Comparative Total	3,844	$18,640,409	4,194	$19,673,880

*Not included in comparative totals.

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Clinical Pavilion, Thirty-sixth and Spruce streets, Philadelphia. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Reinforced concrete, brick and limestone. Preliminary sketches in progress. Too early for details.

Bakery (rebuilding), Twentieth and Indiana avenue, Philadelphia. Architect, A. B. Comstock, 110 West Fortieth street, New York.. Owners, Freihofer Baking Co., on premises. Fire restoration. Plans in progress.

Council Headquarters' Building, 2009 Spruce street, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Knights of Columbus, San Domingo Council, on premises. General alterations and additions. Plans in progress.

Apartment House, Southeast Corner Twenty-third and Walnut streets, Philadelphia. Architect, Joseph Margolis, 1505 Race street, Philadelphia. Owner, Joseph Rabinowitz, Northeast Corner Thirty-seventh and Walnut streets, Philadelphia. Brick, cut stone, steel, 10 stories and basement, 62x106 feet, slag roof, oak, pine and cement floors, elevators, steam heat, electric light, metal lath, tile, marble and terrazzo, bond, ornamental iron. Plans in progress. Will be ready for general bids in three weeks.

Elementary School, Baltimore and Thomas avenues, Philadelphia. Architect, Irwin T. Catherine, Franklin Trust Building, Philadelphia. Owners, Board of Education, Nineteenth street above Chestnut, Philadelphia. Brick, cut stone, steel, 3 stories and basement, slag roof, cement floors (plumbing, heating and electric work separate). Owners taking bids due October 5th at noon.

Miscellaneous School Work, Philadelphia. Owners, Board of Education, Nineteenth street above Chestnut, Philadelphia. Plumbing, drainage, electric work, heating, refrigerating shelves; Overbrook High, wire screens; various schools, etc. Owners taking bids due October 5th at noon.

Manse, Chelten avenue and Limekiln pike, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Covenant Presbyterian Church, H. W. Hathaway, Twentieth and Chelten avenue, Philadelphia. Stone, 2 stories, 51x26 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Plans will be ready for contractors in a few days.

Superintendent's Cottage, Shallcross School, Philadelphia. Architect, Irwin T. Catherine, Franklin Trust Building, Philadelphia. Owners, Board of Education, Nineteenth street above Chestnut street, Philadelphia. Brick, 2½ stories and basement, 26x17 feet, wing 54x18 feet, slate roof, cement and maple floors, metal lath, tile and marble, ornamental iron (plumbing, heating, electric separate). Owners taking bids due October 5th at noon.

Service Station, Southeast Corner Girard avenue and Hancock street, Philadelphia. Engineer, T. J. O'Connell, American Building, Baltimore, Md. Owners, American Oil Co., American Building, Baltimore, Md. Brick, architectural terra cotta, steel, 1 story, 13x10 feet, tile roof, bond, cement floors, plumbing, concrete, waterproofing, ornamental iron, electric light. Owners taking bids.

Residences (9), South side Elmwood avenue, East of Seventy-third street, $50,000. Architect, private plans. Owner, Alfred J. Taxis, 6019 Market street, Philadelphia. Brick, 2 stories, 16x47 feet, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residence, Northeast Corner Granite street and Oxford road, Philadelphia, $12,000. Architect, private plans. Owner, J. D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, 38x20 feet 6 inches x 15 feet, hardwood and pine floors, electric work, tile work. Permit issued.

Residence, 7507 Kulp street, Philadelphia, $4,000. Architect, private plans. Owner, Bert Shepherdson, 7505 Menti street, Philadelphia. Brick, 2 stories, 24x32 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Test Borings, along Norristown Branch of Philadelphia and Reading, from Wissahickon Creek to Fountain street, Philadelphia. Engineer, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railway Co., 522 Reading Terminal, Philadelphia. Deposit of $5 (refunded). Owners taking bids due October 1st at noon.

Starr Garden Recreation Centre, Seventh and Lombard streets, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Works, Bureau of Recreation, 595 City Hall, Philadelphia. Owners taking bids due October 5th at noon. Certified check, 5 per cent.

Residences (3), Edmund street, North of Benner street, Philadelphia, $11,600. Architect, private plans. Owner, Walter A. Judd, 6704 Torresdale avenue, Philadelphia. Brick, 2 stories, 15x37 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (43),) Sharpnack street, East of Boyer street, Philadelphia, $194,500. Architect, private plans. Owner, David Sloan, 4763 North Eighth street, Philadelphia. Brick, 2 stories, 15x28 feet, 12x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Store and Shop, 4511 Woodland avenue, Philadelphia, $6,000. Architect, private plans. Owner, William N. Manuel, 5849 Ellsworth street, Philadelphia. Brick, 2 stories, 16x40 feet, 19x29 feet, slag roof, pine floors, electric light. Permit issued .

Residences (4), East side Dittman street, North of Hellerman street, $4,500 each. Architect, private plans. Owners, Tacony Housing Association, 6932 Keystone street, Philadelphia. Brick, 2 stories, 15x26 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (38), 2810-46 and 2811-47 South Franklin street, Philadelphia, $114,000. Architect, private plans. Owner, Burton C. Simon, Twentieth and Passyunk avenue, Philadelphia. Brick, 2 stories, (2) 15x39 feet, (36) 15x30 feet, 11x9 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (30), East side Smedley street, North of Sixty-fifth avenue, $122,000. Architect, private plans. Owners, Madway & Madway, 4218 Lancaster avenue, Philadelphia. Brick, 2 stories, 16x30 feet, 12x11 feet, slag roof, pine floors, electric light. Permit issued.

Residences (20), West side Howard street, North of Grange street, $111,400. Architect, private plans. Owner, Carl Metz, 315 West Rockland street, Philadelphia. Brick, 2 stories, 15x26 feet, 12x9 feet, slag roof, hardwood and pine floors, hot fater heat, electric light. Permit issued.

Residences (17), South side Olcott street, East of Horrocks street, $68,000. Architect, private plans. Owner, Martin P. Newell, 3032 Aramingo street, Philadelphia. Brick, 2 stories, 15x26 feet, 12x14 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (17), North side Rosalie street, East of Horrocks street, $65,000. Architect, private plans. Owners, P. J. & T. P. McFarland, 2409 East Allegheny avenue, Philadelphia. Brick, 2 stories, 15x26 feet, 12x14 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (12), 4101-23 Comly street, Philadelphia, $60,000. Architect, private plans. Owner, John B. Connor, 602 East Indiana avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (4)), South side Fuller street, West of Loretta street, $28,000. Architect, private plans. Owner, Fred Redmer, Cheltenham, Pa. Frame, 2 stories, 15x25 feet, 12x9 feet, hardwood and pine floors, hot water heat, electri clight. Permit issued.

Residences (8), 2117-31 North Seventy-second street, Philadelphia, $63,000. Architect, private plans. Owner, Walter S. Bauer, 7203 Ogontz avenue, Philadelphia. Brick, 2 stories, 20x52 feet, 20x37 feet, 18x40 feet and 18x52 feet, slag roof, hardwood and pine floors, electric work. Permit issued.

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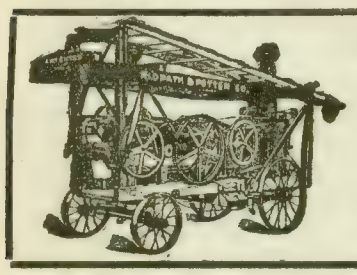
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North of Griffith street, $3,000. Architect, private plans. Owner, Victor Dick, 7333 Oxford pike, Philadelphia. Frame and stucco, 2 stories, 24x36 feet, shingle roof, hot air heat, electric light. Permit issued.

Garage, 4931 North Fairhill street, Philadelphia, $2,500. Architect, private plans. Owner, Robert A. Kenney, on premises. Brick, 1 story, 20x44 feet, slag roof, cement floors, electric light. Permit issued.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of City Property, 216 City Hall, Philadelphia. 1. Demolition and removal of buildings on City Hall Annex plot. 2. Supply and spreading manure as per specifications. 3. Soil treatment and miscellaneous work, Queen Park, Catherine street, West of Second, Third Ward. 4. Soil treatment and miscellaneous work, Powers Park, American, Almond and Mercer streets, Twenty-fifth Ward. 5. Reconstruction of approach to City Hall Tower elevator. For further information apply 117 City Hall. Certified check 5 per cent. Owners takin gbids due October 7th at noon.

Paving, Philadelphia. Owners, Department of City Transit, City of Philadelphia, H. E. Ehlers, Director, 1211 Chestnut street, Philadelphia. Contract No. 163, repaving Broad street, from Indiana avenue to Venango street, Broad Street Subway. Certified check, 5 per cent. Deposit of $10 refunded. Owners taking bids due October 5th at noon.

Highway Work, Philadelphia. Owners, Bureau of Highways, Department of Public Works, City Hall, Philadelphia. Low bidders on work received September 21st.

Schedule A—Paving and repaving. Wissahickon avenue, Abbottsford road to Roberts avenue, United Paving Co., Real Estate Trust Building, Philadelphia, $43,119.62.

Schedule B—Asphalt repaving. Market street, from Forty-second to Fiftieth, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $71,659.71.

Schedule C—Redressed granite block repaving. Allegheny avenue, Kensington avenue to Front street, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $46,-218.12. Chew street, from Chelten avenue to Wister street, Mazzola & Marano, 739 South Seventh street, Philadelphia, $26,231.02. Franklin street, from Race to Vine, Joseph Salvucci & Brother, 512 North Sixty-fifth street, Philadelphia, $8,684.25. Medina and Sears streets, from Seventh to Eighth, C. G. Centrone, 1211 Chestnut street, Philadelphia, $5,867.10. Passyunk avenue, from Schuylkill avenue to point 480 feet east, C. G. Centrone, 1211 Chestnut street, Philadelphia, $5,010.88. Sansom street, from Eighteenth to Nineteenth, Acchione Const. Co., 804 South Twelfth street, Philadelphia, $4,226.50. Fourth street, from Fairmount avenue to Vine street, Joseph Salvucci & Brother, 512 North Sixty-fifth street, Philadelphia,. $28,350.29. Ninth street, Christian to Federal, Joseph Salvucci & Brother, 5152 North Sixty-fifth street, Philadelphia, $23,131.68. Eleventh street, from Walnut to Market, Municipal Paving Co., 702 Catharine street, Philadelphia, $15,655.87. Eighteenth street, from Arch to Vine, from Vine to Buttonwood, and from Buttonwood to Spring Garden, United Paving Co., Real Estate Trust Building, Philadelphia, $26,-015.56. Nineteenth street, from South to Rittenhouse, United Paving Co., Real Estate Trust Building, Philadelphia, $8,581.70. Sixty-second street, from Baltimore avenue to Spruce street, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $26,959.85.

Apartment House, 13th St. and 68th Ave., Oak Lane, Phila. Architect, M. A. Bernhard, 127 S. 18th St., Phila. Owner, name withheld. Brick, limestone, 4 stories, 93x169 feet. Plans in progress. Architect will be ready for subbids in one month.

Club House, Coulter St., W. of Germantown Ave., Phila. Architect, E. A. Wightman, Bankers Trust Bldg., Phila. Owners, Germantown Square Club, Howard Smith, Pres., 4 E. Armat St., Phila. Brick, stone, trim, 3 stories, 44x100 feet. Plans completed. Owners will take bids.

Fraternity House (Alts. and Add.), 3815 Walnut St., Phila. Architects, Silverman & Levy, Elrae Bldg., Phila. Owners, Phi Beta Delta Fraternity, on premises. Brick, 3 stories and basement, 18x18 feet, terra cotta and tile roof, cement and mahogany floors, ornamental iron, bond, tile and marble, metal lath, electric light (heating and linoleum flooring, reserved), flagstone, brass pipe, artificial stone. Architects taking bids due Oct. 4th.

Residences (52), Aldine St., E. of Leon St., $214,000. Owners, Morrison & Gitman, 4704 Hazel Ave., Phila. Brick, 2 stories, 16x29 feet, slag roof, hot water heat, electric light, ooak and pine floors. Permit issued.

Warehouse, West Bank Schuylkill River, 51 to 53, $30,000. Owners, Van Sciver Corp., 24th and Parkway, Phila. Steel and concrete, 2 stories, 34x176 feet, steam heat, electric work, steel sash, slag roof, cement floors. Permit issued.

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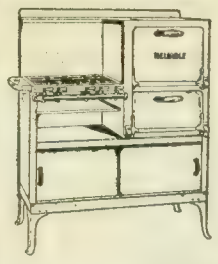
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Cement Warehouse (Alts.), Tasker St. Wharf, Delaware River. Architect, private plans. Owners, J. M. Kelter Co., on premises. Brick, 1 story, 30x53 feet, Johns Manville roof, cement floors, hardware, rolled steel sash. Contract awarded to Sourci & Macrame, 734 S. 7th St., Phila.

Apartment House, N. E. Cor. 13th and Pine Sts., Phila. Architect, Jos. Margolis, 10 S. 18th St., Phila. Owners, Fried & Fishman, 262 S. 17th St., Phila. Brick, terra cotta, limestone, 4 stories, 44x80 feet, slag roof, hardwood floors, leveators, plate glass, tile work, steam heat, electric light. Contract awarded to Jos. S. Lynch, 262 S. 17th St., Phila., who is taking sub-bids.

Building, 529 Callowhill St., Phila. Architect, private plans. Owners, Hyman Printing Co., care of builder. Brick, steel, 1 story, mezzanine and basement, 20x90 feet, slag roof, cement floors, steam heat, electric light, steel sash. Contract awarded to Geo. Kessler Cont. Co., 1733 N. Marvine St.

Mill Building, Gillingham and Torresdale Ave. Architect, private plans. Owners, Whitehall Knitting Mills, care of builder. Brick, steel, 2 stories and basement 48x120 feet, slag roof, cement floors, steam heat, electric light, steel sash, ornamental iron. Contract awarded to Geo. Kessler Cont. Co., 1733 N. Marvine St.

Swimming Pool, S. W. Cor. Norwood Road and Sunset Ave., $15,000. Architect, private plans. Owner, Mrs. W. S. Volkmar, on premises. Concrete work. Contract awarded to J. S. Cornell & Sons, Inc., 1528 Cherry St.

Sunday School (Alts.), S. E. Cor. Germantown and Phil Ellena St. Owners, St. Michels Lutheran Church, Inc., premises. $3,000. General alterations. Contract awarded to E. F. Godshall, 6631 Ross St., Phila.

Contract 127, Shop Buildings, Fern Rock Terminal, Philadelphia, $1,110,000. Architect, private plans. Owners, City of Philadelphia, Department of City Transit, 1211 Chestnut street. Brick, cut stone, granite, limestone, slag roof, cement floors, safety treads, dampproofing, architectural terra cotta, floor hardener, ornamental iron, bond, rolled steel sash and skylights, tile and marble, metal lath, mineral floors, wood block, steel partitions. Contract awarded to Golder Const. Co., 263 South Fifteenth street, Philadelphia.

Alterations and Additions, 2122 Locust street, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Beckman Brothers & Co., 45 South Seventeenth street, Philadelphia. Brick, steel, reinforced concrete, 4 stories and vasement, 32x32 feet, slag roof, electric light, metal lath, tile, oak and cement floors, elevators, rolled steel sash and skylights, hollow metal doors, ornamental iron, demolition, incinerators (kitchen equipment and kitchenette equipment, built-in beds, ranges, refrigerators, heating, plumbing, linoleum floors reserved). Contract awarded to Howard J. Rile, North Wales, Pa.

Film Exchange Building, Northeast Corner Twelfth and Vine streets, Philadelphia. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owner, Claude S. Jarvis, 1211 Vine street, Philadelphia. Brick, cut stone, steel, 3 stories and basement, 90x58 feet, slag roof, maple and cement floors, steam heat, electric light, metal lath, iron work, architectural terra cotta. Contract awarded to Davies Const. Co., 331 Madison avenue, New York.

Apartment House, 1422 North Sixteenth street, Philadelphia. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, J. De Spipio, on premises. Brick, 3 stories, 20x90 feet, hardwood floors, steam heat, electric light, tile and marble, oil burners. Contract awarded to Daniel Josephson, 5405 Walnut street, Philadelphia.

Residence and Garage, Wissahickon avenue and Sedgwick avenue, Philadelphia. Architects, De Armond, Ashmead & Bickley, 20 South Fifteenth street, Philadelphia. Owner, A. Vinton Clarke, Orinoka Mills, Ruth street below Somerset street, Philadelphia. Stone, 2½ stories, 54x26 feet, 38x20 feet, 49x23 feet, slate roof, hardwood floors, vapor heat, electric light, tile and marble, dreadnaught flooring, metal casements. Contract awarded to H. M. Wilson & Co., 20 South Fifteenth street, Philadelphia.

Laundry Building, 1504 North Mervine street, Philadelphia, $5,000. Architect, Julian Simsohn, Broad and Girard avenue, Philadelphia. Owners, Davis & Young Coat & Apron Supply Co., on premises. Brick, reinforced concrete, steel, 1 and 2 stories, 72x20 feet, slag roof, cement floors, steam heat, electric light, rolled steel, bond, floor hardener, ornamental iron. Contract awarded to Haverstick & Borthwick, 1505 Race street, Philadelphia.

Building, 242 Arch street, Philadelphia. Architect, Edward A. Roth, Drexel Building, Philadelphia. Owner, H. Chervin, 2111 Boardwalk, Atlantic City, N. J. Brick, cast stone, steel, 3 stories and basement, 51x19 feet, slag roof, pine floors, electric work, marble, roof ventilators, rolled steel skylights. Contract awarded to H. M. Shandles, 617 Pine street, Philadelphia.

Manufacturing Building, Fifth and Allegheny avenue, Philadelphia. Architect, Julian S. Simsohn, Broad and Girard avenue, Philadelphia. Owners, Smith Drum Co., on premises. Brick, concrete, steel, 2 stories, 104x50 feet, wing 94x54 feet, Barrett roof, cement floors, steel sash, fire doors, ornamental iron, bond. Contract awarded to William L. Crompton, care of owners.

Carpentry Shop (add.),) Ninth and Buttonwood streets, Philadelphia. Architect, E. A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Hellwig Silk Dyeing Co., Ninth and Buttonwood streets, Philadelphia. Brick, third and fourth stories add., 40,000-gallon wood tank, waterproofing, elevator shafts. Contract awarded to J. L. Fawley Co. ,1615 Spruce street, Philadelphia.

Manufacturing Building, South side Lippincott street, West of Second street, $60,000. Architect, private plans. Owners, Joseph R. Foster & Sons, Second and Clearfield streets, Philadelphia. Brick, steel, concrete, slag roof, electric light, steam heat. Contract awarded to H. M. Wilson Co., 20 South Fifteenth street, Philadelphia.

Residence, 1012 Harrison street, Philadelphia, $7,500. Architect, private plans. Owner, Jacob Murphy, 1023 Fillmore street, Philadelphia. Brick, 2 stories, 16 feet 4 inches x 48 feet, slag roof, hardwood and pine floors. Contract awarde dto J. D. Fotheringham, 1000 Arrott street, Philadelphia.

Residences (8), Alicia, Hoffnagle and D streets, Philadelphia, $30,000. Architect, private plans. Owner, J. A. Bacher, 7862 Oxford avenue, Philadelphia. Brick, 2 stories, various sizes, slag roof, pine floors, hot water heat, electric light. Contract awarded to H. W. Myers, 638 Solly avenue, Philadelphia.

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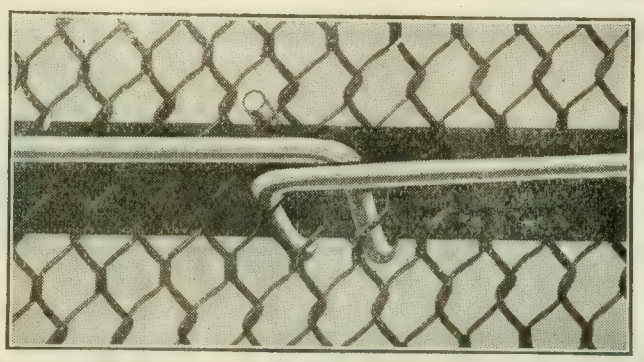
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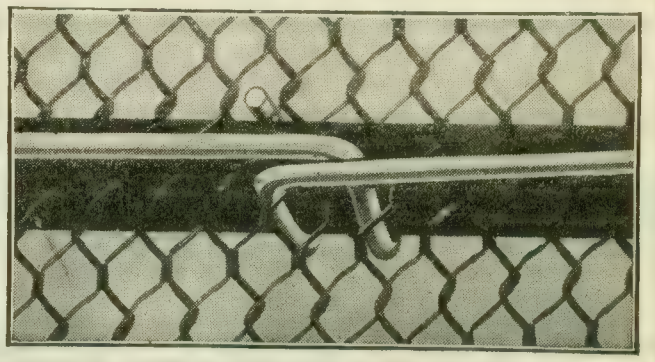
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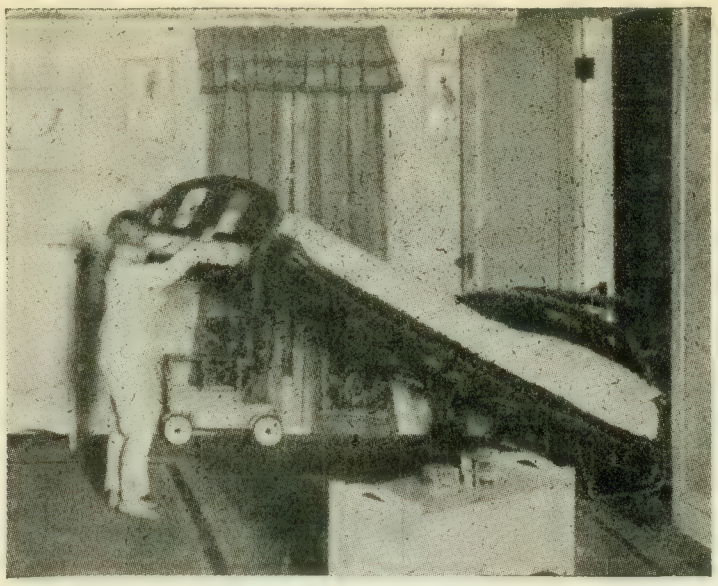
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sixth and Sherwood avenue, $7,500. Architect, private plans. Owner, R. C. Hassrick, on premises. Brick, 2 stories add., 18 feet 4 inches x 22 feet, slag roof, hardwood and pine floors, electric light. Contract awarded to W. D. & H. T. Smedley, Narberth, Pa.

Residence, South side Aurania street, East of Eva street, Philadelphia, $4,800. Architect, private plans. Owner, George Esterbild, Ridge and Fountain avenues, Philadelphia. Frame, 1 story, 30x36 feet, hot air heat, electric light. Contract awarded to George W. Robinson, 635 Summit avenue, Philadelphia.

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Residence, 6112 Musgrave avenue, Philadelphia, $4,500. Architect, private plans. Owner, Annie Hall, 451 East Walnut lane, Philadelphia. Stone and brick, 2 stories, 16x38 feet slag roof, pine floors, hot water heat, electric light. Contract awarded to Thomas Morehead, 5400 Germantow navenue, Philadelphia.

Laboratory (add.), East side Richmond street, North of Bridge, $2,500. Architect, private plans. Owners, Charles Lennig & Co., Inc., on premises. Brick, 1 story add., 26x55 feet. Contract awarded to Rumpf & Kohlmeyer, 3538 North Thirteenth street, Philadelphia.

Boiler Room, Northwest Corner Decatur and Tulip streets, Philadelphia, $6,000. Architect, private plans. Owners, Schetter & Zamber, Tulip and Rhawn streets, Philadelphia. Brick, 1 story, 42x37 feet. Contract awarded to William F. Lotz, 4644 Frankford avenue, Philadelphia.

Residence, North side Oriole street, West of Ridge avenue, Philadelphia, $12,000. Architect, private plans. Owner, S. Wager, Twenty-fifth and Tioga streets, Philadelphia. Stone and frame, 2 stories, 37x25 feet, 18x10 feet, hardwood and pine floors, hot water heat, electric light, tile work. Contract awarded to G. L. & J. K. Callahan, 542 Fairthorne avenue.

Residences (2), East side Montour street, South of St. Vincent street, $4,500 each. Architect, private plans. Owner, Lena Perlman, 1225 Cottman street, Philadelphia. Brick, 2 stories, 16x46 feet 6 inches, slag roof, hardwood and pine floors, electric light. Contract awarded to Henry Perlman, 1225 Cottman street, Philadelphia.

Residence, Southwest Corner Olcott and Colgate streets, Philadelphia, $4,500. Architect, private plans. Owner, A. J. Sabia, 4104 North Fifth street, Philadelphia. Brick, 2 stories, 15x36 feet, 11x8 feet, slag roof, pine floors. Contract awarded to Paul Trumboli, 4435 North Lawrence street, Philadelphia.

Residence (add.), 6331 Lancaster avenue, Philadelphia, $12,000. Architect, private plans. Owner, Hon. C. N. Audenreid, on premises. Brick, 2 stories add., 15x21 feet 6 inches, hardwood floors, electric work. Contract awarded to William R. Dougherty, 1610 Sansom street, Philadelphia.

Residence and Store (add.), 2099 North Sixty-third street, Philadelphia, $3,500. Architect, private plans. Owner, Mrs. M. Makellar, on premises. Brick, 1 story add., 15x28 feet, slag roof, pine floors, electric work. Contract awarded to M. W. Young, 2037 North Sixty-third street, Philadelphia.

Store and Residence (add. and alts.), 1225 Poplar street, $5,000. Architect, private plans. Owner, Benjamin Kingsdorf, Twelfth and Poplar streets, Philadelphia. Brick, 1 story add., 6x30 feet, general alterations. Contract awarded to Nat. Rosenbeck, 1616 North Thirtieth street, Philadelphia.

Store and Residence (add.), 314 South Fifty-sixth street, Philadelphia, $3,000. Architect, private plans. Owner, Mehran Eskandunian, on premises. Brick, 2 stories add., 15 feet 6 inches x 16 feet. Contract awarded to Harry Devletian, 5948 Walnut street, Philadelphia.

Pennsylvania Construction News

Church, Lewistown, Pa. Architects, Charles W. Bolton & Son, 1505 Race street, Philadelphia. Owners, Trinity Reformed Church, H. E. Knepp and J. E. Rupley, Lewistown, Pa. Stone, 2 stories and basement, 80x120 feet. Architects will be ready for new bids on revised plans in one week.

Church (alts. and add.), Bangor, Pa. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, St. John's Reformed Church, S. A. Peel, Bangor, Pa. Stone, slate roof, general alterations. Preliminary plans in progress.

Home for Aged Women, Mansdale, near Danville, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Abigail A. Geisinger Home, care of architect. Sketches drawn. Work contemplated.

Grade School, Horsham, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Horsham, Pa. Brick and stone, 1 story, 140x60 feet, asbestos shingle roof, hot air heat, hollow metal sash, Duraflex floors. Plans in progress.

Auditorium and Gymnasium, Steelton, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Steelton School Board, Fourth and Walnut streets, Steelton, Pa. Fireproof. Architect selected.

Auditorium and School, Steelton, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owners, Steelton School Board, Mr. Entwistle, president, Fourth and Walnut streets, Steelton, Pa. Brick, steel, 10 rooms. Architect selected. Details undecided.

Residence, Front street, Harrisburg, Pa. Architect, C. H. Lloyd, Telegraph Building, Harrisburg, Pa. Owner, Mr. Herre, Seventh and Emerald streets, Harrisburg, Pa. Stone and stucco, 2½ stories, 50x50 feet, slate roof, hardwood floors, vapor heat, electric light, tile work. Plans in progress.

Bridge, West Fourth street, over Crow Creek, Norristown, Pa. Engineer, S. C. Hollister, Norristown, Pa. Owners, Montgomery County Commissioners, Norristown, Pa. Reinforced concrete span. Plans in progress.

Church, Brookline, Pa. Architect, George C. Baum, 1511 Arch street, Philadelphia. Owners, Temple Lutheran Church, Brookline, Pa. Stone, concrete, 1 story, gallery and basement, 70x50 feet, Bangor slate roof, pine floors, cement floors, steam heat, electric light, bond, ornamental iron, cast stone. Revised plans in progress. Will be ready for bids in two weeks.

Junior High School, Red Lion, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Red Lion School Board,

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Dr. J. C. Atkins, Red Lion, Pa. Semi-fireproof, 1 story and basement, 173x115 feet, brick, steel, concrete, slag and composition roof, cement and composition floors, roof ventilators, cut stone, steel sash, metal lath, steel window guards (plumbing, heating and electric work separate). Owners about ready for bids.

Office Building and Garage, Lemoyne, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Supreme Oil Co., Lemoyne, Pa. Brick, steel, 1 story, 60x60 feet, 100x100 feet, slag and slate roof, hardwood and concrete floors, roof ventilators, fire doors, skylights, steel sash, electric light, vapor heat or oil burner. Plans in progress. Architect taking bids.

Nurses' Home, Lewistown, Pa. Architects, Witman & Royer, 47 East Market street, York, Pa. Owners, Lewistown Hospital, Lewistown, Pa. Brick, steel, 2 stories and basement. Plans in progress. Too early for details.

School, Schuylkill Haven, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Ambrose's Roman Catholic Church, Rev. A. B. Caine, Schuylkill Haven, Pa. Brick, steel, 2 stories, 60x80 feet, 12x20 feet, composition roof, pine floors, safety treads, roof ventilators, metal lath, bond, iron stairs (heating, plumbing and electric reserved). Plans in progress.

Swimming Pool, Glenside, Pa. Architect, R. B. Cridland, 306 South Smedley street, Philadelphia. Owners, Cheltenham Township, George Hoffelbacher, secretary, 2047 Arch street, Philadelphia. Concrete, waterproofing, grading. Owners taking bids due October 4th.

Office Building, Caretaker's House, Entrance Gates, Walks, Fences, Walls, etc., Township Line road, North of Doylestown, Pa. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, Acacia Park Cemetery Co., care of architect. Architect taking bids due October 4th.

Store and Office Building, 7-9-11 South Market street, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, James McCormick Estate, care of architect. Brick, steel, limestone, composition roof, maple floors, hollow tile, tile work, elevators, electric work, metal lath, steel sash, fire doors, iron stairs. Architect taking bids due September 30th.

Bank (add.), Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Bethlehem Trust Co., Broad and Main streets, Bethlehem, Pa. Granite, concrete, steel, 1 story, 40x50 feet, heating extension, electric work, marble, bronze, ornamenta liron, terra cotta. Architect taking bids due October 2nd.

Residence "Y," Rock Glen road, Overbrook Hills, Merion, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, McWilliams & Meloney, 539 South Fifty-second street, Philadelphia. Stone, frame, 2 stories, 25x35 feet, wing 8x12 feet, garage, 2 stories, 12x20 feet, shingle roof, oak, pine and cement floors, central heat, electric light, tile and marble. Plans in progress. Owners ready for sub-bids.

Residence (2) "W" and "X," Surrey lane and Rock Glen road, Overbrook Hills, Merion, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, McWilliams & Meloney, 539 South Fifty-second street, Philadelphia. Stone, frame, "W," 3 stories, 36x26 feet, garage, 1 story, 10x20 feet, "X," 2 stories, 36x24 feet, garage, 1 story, 10x20 feet, shingle roof, oak, pine and cement floors, central heat, electric light, tile work. Plans completed. Owners taking sub-bids.

Residence, Wynnewood, Pa. Architects, McIlvaine & Roberts, 112 South Sixteenth street, Philadelphia. Owner, Florence B. Scott, care of architects. Architects taking bids due October 4th.

High School, West York, Pa. Architects, Witman & Royer, 47 East Market street, York, Pa. Owners, West York Borough School Board, West York, Pa. Brick, steel, fireproof, 2 stories and basement, 174x60 feet, composition roof, maple floors, composition floors, hollow tile, roof ventilators, safety treads, steel sash, metal lath, ornamental iron. Lowest bidders: I. Riandollar & Son, York, Pa., $64,310; L. D. Menough, 450 West Philadelphia street ,York, Pa., $64,432.

Bridge, over Tyson's Run, Lower Salford Township, Pa. Engineer, S. C. Hollister, Norristown, Pa. Owners, Montgomery County, W. C. Irvin, contractor, Court House, Norristown, Pa. Reinforced concrete bridge. Owners taking bids due October 18th at 10 A. M.

Supplies, Norwood, Pa. Owners, Boro. of Norwood, J. A. Kimber, Sec'y, Fire House, Norwood, Pa. 24 inch manhole frames and covers, 24 nch terra cotta pipe, rough hard brick for balance of 1926. Owners taking bids due October 13th at 8 P. M. (Certified check $50.)

Locker House (Add. and Alts.), Philmont, Pa. Architects, Simon & Simon, 249 S. Juniper St., Phila. Owners, Philmont Country Club, Philmont, Pa. Brick, cut stone, concrete, steel, 2½ stories and basement, 68x40 feet, wing 41x121 feet, tile and slag roof, cement and oak floors, metal weatherstrip, shoring, waterproofiing, ornamental iron, iron iron stairs, bond, fire and rolled steel doors, tile, marble and terrazzo, metal lath, metal partitions, stone work, soda equipment, bluestone, membrane waterproofing, integral waterproofing, linestone, area gratings. Architects taking bids due Oct. 7th.

Pennsylvania Contracts Awarded

Passenger Station, Wernersville, Pa. Architect, S. T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railway, Twelfth and Market streets, Philadelphia. Stone, steel, reinforced concrete, 1 story, 25x65 feet, Chapman slate roof, cement and pine floors, hot water heat, electric light, metal lath, tile and marble, bond, ornamental iron, bituminous and macadam paving, cut stone. Contract awarded to C. H. Schlegel, 2250 Perkiomen avenue, Reading, Pa.

Toilet Buildings (2), Rutherford, Pa. Architect, Samuel T. Wagner, Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railway, Twelfth and Market streets, Philadelphia. Brick, steel, 1 story, 14x30 feet, slag roof, cement floors, steam heat, electric light, plumbing, rolled steel sash, ornamental iron, steel partitions. Con-

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tract awarded to M. N. Croll, Radnor, Pa.

Central Heating Plant, Delaware County Poor Farm, Lima, Pa. Engineer, S. C. Hollister, Media, Pa. Owners, Delaware County Poor District, G. T. Wades, Media, Pa. Construction of boiler house, furnishing and installing laundry and plumbing equipment, electric wiring, boiler plant equipment, underground piping, etc. Contract awarded to Hood & Gross, 1535 Chestnut street, Philadelphia, $10,995. Electric to H. A. Hynes, Chester, Pa., $1,572. Plumbing to B. L. Marker, Chester, Pa., $1,695. Equipment to American Laundry Machine Equipment Co., 38846 Lancaster avenue, Philadelphia, $5,205.

Residence and Garage, Trevose, Pa. Architect, John S. Reagan, care of Reading Co., Twelfth and Market streets, Philadelphia. Owner, Jay V. Hare, care of architect. Stone, 2½ stories and basement, 54x26 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work, ornamental iron. Contract awarded to Doran S. Callahan, Cynwyd, Pa.

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Residence, Norristown, Pa. Architect, Mantle Fielding. 520 Walnut street, Philadelphia. Owner, William S. Buckland, Norristown, Pa. Stone, 2½ stories and basement, 45x30 feet, slate roof, oak and pine floors, hot water heat, electric light, ornamental iron. Contract awarded to F. R. Heavner, Norristown, Pa.

Residence and Garage (add. and alts.), State road, Bryn Mawr, Pa. Architect, Ralph Colton, 225 South Sydenham street, Philadelphia. Owner, Charles Jones, on premises. Stone addition, general alterations. Contract awarded to A. V. Gilchrist, Drexel Building, Philadelphia.

Elevator Shaft in Store, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owners, Pomeroy's, Inc., 600 Penn street, Reading, Pa. Steel, underpinning, elevators, elevator doors, metal lath. Contract awarded C. H. Schlegel, 2250 Perkiomen avenue, Reading.

Apartment House (add. and alts.), Ninth and Franklin streets, Reading, Pa. Architect, C. J. Young, 226 North Sixth street, Reading, Pa. Owner, W. H. Gross, 627 Walnut street, Reading, Pa. Brick, 3 stories, 28x38 feet, tin roof, pine floors, steam heat, electric light, general alterations. Contract awarded to H. F. Freyberger, Reading, Pa.

Store and Office, Second street, Harrisburg, Pa. Architect, private plans. Owners, The Cotterel Co., 201 North Second street, Harrisburg, Pa. Brick, steel, wood, 2 and 3 stories, 28x154 feet, composition roof, maple floors, hollow tile, elevators, safety treads, ornamental iron, fire doors, steel sash, tile work, metal lath, central heat, electric work. Contract awarded to Fred DeGroot, Twelfth and Derry streets, Harrisburg ,Pa.

Hospital for Crippled Children, Elizabethtown, Pa. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, State of Pennsylvania, Dr. C. Minor, Capitol Building, Harrisburg, Pa. Brick, cut stone, concrete, granite, 2 stories and basement, 142x49 feet, slag roof, cement floors, tile and marble, hollow tile, bond. Contract awarded to D. S. Warfel, Lancaster, Pa., $96,166.

Residences (3), Woodlow pike, Lancaster, Pa. Architect, M. R. Evans, 10 East Orange street, Lancaster, Pa. Owner, Frank Trissler, care of architect. Brick, stone, stucco, 2½ stories, 28x30 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Herman Wohlsen, Woolworth Building, Lancaster.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

McKean County, R-211, A-3907, Eldred Township and Borough. One course reinforced concrete. Contract awarde dto George Metzger, Jr., Emporium, Pa., $91,208.86.

Butler County, A-4046, Clinton Township. One course reinforced concrete. Contract awarded to Jones Const. Co., Woodlawn, Pa., $35,187.53.

Susquehanna County, R-12, A-4148, Springville and Dimock Townships. One course reinforced concrete. Contract awarded to Lane Const. Co., Meriden, Conn., $94,873.50.

Delaware County, A-3969, Springfield Township. One course reinforced concrete. Contract awarded to Juniata Co., Empire Building, Philadelphia, $76,371.17.

McKean County, R-100, A-4292, Otto and Foster Townships. One course reinforced concrete. Contract awarded Joe Wiesner, St. Mary's, Pa., $190,580.58.

Butler County, A-3875, Windfield Township. Penetration surface course on reconstructed base. Contract awarded to Gray Brothers, Latrobe, Pa., $92,883.35.

Residence and Garage, Lapsley Road and City Ave., Merion, Pa. Architect, Lucius R. White, Hearst Tower, Baltimore, Md. Owner, Robert C. Kolb, care of architect. Limestone, steel, reinforced concrete, 90 feet by 11 inches by 35 feet, slate roof. Garage 37x22 feet, tile and marble, linoleum, hardwood floors, flagstone, bond, ornamental iron, steel casements, floor hardener, steel stairway, metal lath, pipe, pipe covering (heating and electric reserved), terra cotta, metal weatherstrips, area gratings. Contract awarded to J. S. Cornell & Son, 1528 Cherry St., Phila.

Road Work, Pennsylvania. Owners, Penna. Dept. of Highway, Harrisburg, Pa. Bucks and Montgomery Counties, A-4037, 3771, 4067, Telford, W. Telford and Souderton Boroughs, Hilltown and Franconia Townships. One course reinforced concrete, $77,073.70. Contract awarded to Cox & John, Malvern, Pa.

Somerset County, R-52, A-3917, Somerset Township, 16,081 feet. One course reinforced concrete, $110,559.65. Contract awarded to M. T. McCabe & Co., Fairmount, W. Va.

Susequehanna County, R-174, Sec. 2, Lenox and Harford Townships. One course reinforced concrete, $328,679.39. Contract awarded to A. W. Hinaman, Williamsport, Pa.

Clarion County, R-237, A-4234, Hawthorne Borough. One course reinforced concrete, $49,467.42. Contract awarded to Rinehart Bros., E. Liverpool, Ohio.

Westmoreland County, R-181, A-4261, Rostraver Township. One course reinforced concrete, $100,425.15. Contract awarded to Donora Const. Co., Donora, Pa.

Northampton County, R-165, Sec. 3, Lower Mt. Bethel Township. One course reinforced concrete, $44,149.42. Contract awared to Capitol Const. Co., Des Moines, Iowa.

Bradford County, R-13, A-4107, Asylum Township. Bituminous surface treated macadam, $56,198.94. Contract awarded to Bryant & Kohl, Inc., Wilkes-Barre, Pa.

Blair County, A-3575, Logan Township. One course reinforced concrete. Contract awarded to Standard Const. Co., Altoona, Pa., $35,391.21.

Clarion County, R-66, A-4367, Clarion & Limestone Townships. One course reinforced concrete, $75,277.75. Contract awrded to W. C. Quick & Co., Brookville, Pa.

Franklin County, R-340, A-3840, Letterkenny Township. One course reinforced concrete. Contract awarded Lester Long Co., Hagerstown, Md., $43,474.58.

Indiana County, A-796, Black Lick Township. One course reinforced concrete. Contract awarded R. H. Cunningham & Sons, Turtle Creek, Pa., $180,325.

Blair County, A-3583, Allegheny Township. One course reinforced concrete. Contract awarded Lincoln Const. Co., Stafford, Pa., $23,485.40.

New Jersey Construction News

Highway Work, New Jersey. Owners, State Highway Commisison, A. Lee Grover, Sec'y., Broad St. Bank, Trenton, N. J. Route No. 14, Sections 12 and 13, Corbin City Cutoff and Estellville widening, Atlantic & Cape May Cos. Excavation, borrow, gravel surfaces. Owners taking bids due Oct. 11th at noon (S. T.) Certified check 10%. Deposit $10.00.

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Country Club, Burlington, N. J. Owners, Burlington Country Club, W. Emory Cheesman and Edgar Fenemore, Burlington, N. J. Work contemplated.

School, Eighth and Jackson streets, Camden, N. J. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Board of Education, City Hall, Camden, N. J. Brick, steel, cut stone, 2 stories and basement, 161x138 feet, slag roof, maple and cement floors, roof ventilators, metal lath, tile work, rolled steel sash, metal lath, bond, ornamental iron. Owners taking revised bids due October 1st at 2 P. M.

Building (alts. and add.), Bridgeton, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, Cumberland Mutual Fire Insurance Co., Bridgeton, N. J. New front, general interior alterations. Plans in progress.

Paving and Grading, Bellmawr, N. J. Engineer, B. M. Schmucker, Bellmawr, N. J. Owners, Borough of Bellmawr, Herbert Phillips, Clerk, Bellmawr. Owners taking bids due September 30th at 8 P. M. Deposit of $10. Certified check, 10 per cent.

Highway Work, New Jersey. Owners, State Highway Commission, Broad Street Bank Building, Trenton, N. J. Low bidders:

Route 4, Section 7B, Mullica River Section. Wallace, Tozom & Wall, Millville, N. J., $40,648.10.

Route 16, Section 5B, South Bridge street, Somerville. Graham & Van Deeren, Jersey City, A. J., $32,175.60.

New Jersey Contracts Awarded

Hotel, Pennsylvania avenue near Boardwalk, Atlantic City, N. J. Architects, Lockwood-Greene Co., Boston, Mass. Owners, Seaside Hotel Co., on premises. Brick, steel, 12 stories and basement, 122x53 feet, tile and composition roof, cement floors, elevators, steam heat, electric light, metal lath, tile, marble and terrazzo, rolled steel sash, fire doors, bond, iron stairs, ornamental iron, cast stone, integral waterproofing. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Building, rear 22 Federal street, Camden, N. J., $5,000. Architect, William H. Cookman, Broad Street Bank Building, Philadelphia. Owners, Pennsylvania Railroad Co., Broad Street Station, Philadelphia. Block, slag roof. Contract awarded to Armstrong & Latta Co., 1926 Sansom street, Philadelphia.

Residences (10), 420-38 Rand Street, Camden, N. J., $55,000. Architect, Charles H. Roberts, 112 South Sixteenth street, Philadelphia. Owners, Miller Home Building Co., Camden, N. J. Block and stucco, 2 stories, 17x32 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to A. Edward Anderson, 325 Market street, Camden, N. J.

Service Station, Mt. Ephraim and Pine streets, Camden, N. J., $3,200. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Lincoln Oil Corporation, Fifth and Columbia avenue, Camden, N. J. Block, 1 story, 22x21 feet, slag roof, electric work, concrete floors. Contract awarded to H. C. Paschall, 1493 Bradley avenue, Camden, N. J.

Residence, 1139 Bergen avenue, Camden, N. J., $3,200. Architect, private plans. Owner, Mrs. Annie Jaeger, care of builder. Frame, 1 story, 24x32 feet, slate surface roof, pine floors, warm air heat, electric light. Contract awarded to Joseph Munger, 1180 Bergen avenue, Camden, N. J.

Building (alts.), Northeast Corner Ninth and Wright avenue, Camden, N. J., $16,000. Architect, private plans. Owners, American Ice Co., Ninth and Federal streets, Camden, N. J. New windows, new roof, general repairs to building. Contract awarded to Sutton & Stephenson, 1317 Washington avenue, Philadelphia.

Store Front and Addition, 310 Federal street, Camden, N. J., $4,900. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Richard Wapner, 310 Federal street, Camden, N. J. Block, 2 stories, 14x23 feet 6 inches, slag roof. Contract awarded to Samuel Levy, 1214 Kaighn avenue, Camden, N. J.

Test Borings, Jersey City, N. J. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owners, Y. M. H. A. and Y. W. H. A., Jersey City, N. J. Test borings awarded to Philip J. Healy, Jersey City, N. J.

Sewer System and Paving, Haddon Heights, N. J. Owners, Borough of Haddon Heights, City Hall, Haddon Heights, N. J. Sewer awarded to Fereno Co., Orange, N. J., $23,884. Paving awarded to Union Paving Co., Thirtieth and Locust streets, Philadelphia, $93,845.

Miscellaneous Construction News

Hospital, Troy, N. Y. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, James A. Eddy Memorial Hospital, Troy, N. Y. Brick, limestone, steel, 2 stories and basement, 105x42 feet, slag roof, cement floors, steam heat, electric light, tile work, metal lath, ornamental iron work. Revised plans in progress. Architects will be ready for revised bids in ten days.

High School, Wilmington, Del. Architects, Guilbert & Betelle, Newark, N. J. Owners, Delaware School Auxiliary Association, Du-Pont Building, Wilmington, Del, care of Mr. Taylor. Fireproof, 2 stories, 250x150 feet, slag roof, maple floors, hollow tile, safety treads, roof ventilators, iron stairs, steel skylights, steel sash, terrazzo and tile work, metal lath (heating, plumbing and electric separate). Plans in progress. Owners will be ready for sub-bids in one week.

School, Newport, Del. Architects, Guilbert & Betelle, Newark, N. J. Owners, Delaware School Auxiliary Association, Mr. Taylor, Du-Pont Building, Wilmington, Del. Brick, 1 story, 160x120 feet, slag roof, pine floors, safety treads, roof ventilators (heating, plumbing and electric work separate). Owners will take sub-bids.

Residences (4), Wilmington, Del., $24,000. Architect, private plans. Owner, Egbert Ritter, R. F. D., Edge Moor, Del. Brick, 2 stories, 21x30 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Miscellaneous Contracts Awarded

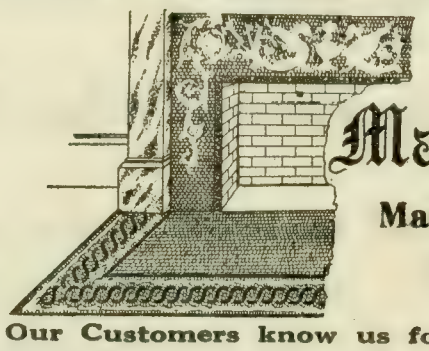
Department Store, Charleston, W. Va. Architect, Charles A. Haviland, Kanawka Valley Bank Building, Charleston, W. Va. Owners, Diamond Shoe & Garment Co., Charleston, W. Va. Brick, cut stone, steel, 5 stories and basement, 122x89 feet, composition roof, cement floors, hollow tile, elevators, roof ventilators, waterproong and dampproofing, architectural terra cotta, ornamental iron, iron stairs, bond, limestone, hollow metal doors, steel sash, marble and terrazzo, metal lath, steam heat, electric light. Contract awarded to C. W. Hancock & Sons, Huntingdon, W. Va.

Community Garage, Maryland avenue, Wilmington, Del. Architect, private plans. Owner, R. R. Banks, 907 Jefferson street, Wilmington, Del. Brick, 1 story, 9x18 feet each, slag roof, concrete floors, electric light. Contract awarded to W. H. Greenwalt, 401 South Union street, Wilmington, Del.

Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., September 23. 1926. Sealed Proposals will be opened in this office at 3 P. M., October 14, 1926, for remodeling the United States Post Office and Court House at Erie, Pa. Drawings and specications may be obtained from the Custodian of the building or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

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(*Continued from page* 616)

during July. A number of the cities, however, that reported gains, in the number of permits granted, also reported similar increases in employment. The outstanding gain in employment for the building trades was in the city of Allentown where employment was 14 per cent. higher in August than in July and average weekly wages were 8 per cent. higher.

NEW BUILDINGS, ADDITIONS, ALTERATIONS AND REPAIRS IN PENNSYLVANIA FOR THE MONTH OF AUGUST

City or Borough	1926 New Buildings No. of Bldgs.	1926 New Buildings Est. Cost	1926 Additions, Alterations, Repairs, etc. No. of Bldgs.	1926 Additions, Alterations, Repairs, etc. Est. Cost	1925 New Buildings No. of Bldgs.	1925 New Buildings Est. Cost	1925 Additions, Alterations, Repairs, etc. No. of Bldgs.	1925 Additions, Alterations, Repairs, etc. Est. Cost
Allentown	146	$ 672,650	29	$ 87,475	135	$ 345,900	30	$ 31,500
Altoona	70	173,210	73	49,223	72	209,259	73	51,222
Bethlehem	44	78,150	33	40,985	51	857,950	15	9,625
Bradford	26	31,030	5	2,975	17	20,950	15	12,150
Easton	24	98,690	25	71,064	26	204,487	16	44,970
Erie	117	446,895	56	157,380	216	618,645	47	396,440
Harrisburg	81	239,990	17	16,875	62	178,950	23	22,000
Lancaster	30	168,650	28	11,655	43	368,350	21	9,100
Meadville	5	20,400	8	5,520	12	280,300	1	1,000
New Castle	41	209,035	21	115,030	71	142,800	18	9,770
Oil City	12	8,400	33	9,452	20	367,795	40	11,616
Philadelphia	842	8,190,660	710	1,510,775	1,263	9,438,950	509	517,730
Pittsburgh	482*	4,083,022	245*	423,048	413*	3,118,323	222*	218,605
Reading	75	231,000	147	106,200	137	694,225	148	89,100
Uniontown	13	40,600	...	.....	3	11,300	....	.....
Warren Borough	5	25,500	5	3,070	5	20,000	8	14,075
Wilkes-Barre	47	158,500	68	44,403	68	227,413	79	80,473
Williamsport	43	307,796	36	8,193	40	174,960	35	7,532
York	31	67,080	56	34,736	35	104,510	69	124,344
Total	2,134	$15,251,258	1,595	$2,698,059	2,689	$17,385,067	1,369	$1,651,252

*Number of Permits—Buildings not given.

EXTERIOR COLOR

BY GERTRUDE WOODCOCK

(*Continued from last week*)

Some excellent colors are golden brown, maroon, wine, terra cotta or any shade of green. A shingled house usually has a shingled roof, which offers an opportunity for rich color combinations. Moss green roofs combine beautifully with walls of rich brown or silver gray, while red roofs look well with sage green walls, gray roofs with terra cotta walls and so on down the scale of olive greens, tans, browns, and thatch colors. There is even a special creamy white stain that is suitable for shingled houses built in colonial or Georgian style.

Shingle stains may be used on all types of unplaned lumber, such as is used on English half timber houses. Good colors for this are silver gray, which gives the effect of weathered timber, and rich browns,—although other shades are in good taste as well.

The trim of shingled houses may be as varied as that of frame houses. To carry out the tradition of shingles, however, warm, soft colors should be used.

Both brick and stucco houses may be painted—and to good advantage, for paint lends both protection and color variety to those sturdy materials. Ordinary brick houses can be given a sort of mottled sponge finish that gives the effect of variegated brick. A combination of light tan and dark red is pleasing, as

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is light red and dark red, orange and gray, or cream and dark gray. The method employed is to give the house a coat of paint, which, when dry, is covered with a coat of contrasting paint. Before this coat dries a sponge is rolled over the surface, lifting off some of the wet paint and allowing the ground color to show through.

Brick houses are often painted brick color,—an especially successful treatment if the trim is distinctive. Bright blue, green, blue-green, orange, black and even purple may be used in contrast with the rich brick color. Painting brick, like painting wood, is not entirely a matter of aesthetics, for, as paint protects wood from weathering and decay, it also protects brick from moisture.

Stuccó houses are best tinted warm, light shades,—soft pink, canary yellow, rich orange, terra cotta, cerulean blue. One of the most distinctive houses in an eastern suburb is of stucco tinted a soft Italian pink with trim of deep robin's egg blue and a roof of golden brown.

This is not all airy dictum, cooked up to please a few radical palates! The need for more color in American architecture is apparent on all sides. As in everything else, however, there are certain rules to be followed in planning exterior finishes. If these are followed rigidly and unstereotyped colors used, the results will be tasteful as well as distinguished.

Otherwise a brilliant or unusual color scheme, applied without regard to style, size or location of the house, is apt to look as though the painter has had a brainstorm and flung his paint pots about.

Since light colors have the effect of apparently enlarging a house and dark colors apparently decreasing it, the proportions of a house should be considered first. A large square house, for instance, set on a bare hillside or on a treeless plot, looks bare and harsh if painted white or one of the light colors. Its austerity is emphasized. A soft gray, fawn, coffee or green color would tone it down. If, however, the house is wellshaded with trees and surrounded by shrubbery, it may be painted a light color and darkened slightly with trim of heavier color. Neutral color treatments are always suitable for large houses. By "neutral" do not misunderstand "dull". A dark house need not look dismal or mud colored. It may be just as attractive—by virtue of its bright trim,—as a vivid little cottage.

Since the small house can carry almost any color, there is but one rule to follow —don't paint it dark unless you wish to make it appear smaller than it is. The little house offers endless opportunity for original color treatment. As a matter of fact, any house that is well-surrounded by foliage may be painted brighter colors than one which stands alone and bare.

Next door neighbors must be considered, too. The color effect of the whole street is as important to each separate house as their individual color schemes. Try to make your house harmonize with those in the immediate vicinity. Don't use mustard color if the house to the right is green, or Italian pink if the house to the left is red. A good plan is to try to use some tone of the dominating colors of the neighbors' houses on your own. For example, if the house next door is white with trim and roof of apple green, and the house on the other side is fawn with trim of bright blue, what colors would look best on your house?

Cream would be excellent for the body, since it would not clash with the fawn tone of one house nor kill the white of the other. For trim I would suggest green-blue and, if the color urge is very strong, a roof of dull yellow with chimneys to match the trim. In this way the house would "bridge" the colors of the other two without losing its own personality.

The home owner's best color advisor is the architect, who designed the house with certain colors in mind, who knows what color treatment is appropriate to the style of the house, and, above all, what lines should be emphasized to make it appear at its best.

Exterior decoration is important, not only from the standpoint of preserving the house, but also because appearances count. No doubt many a warm heart has beaten beneath a shabby jacket, but when it comes to houses, one doubts as much if thrift and dependability are found in the down-at-the-heels-house as whether taste and discrimination can be sheltered by walls and decorated in commonplace, trite style.—*Keith's Magazine.*

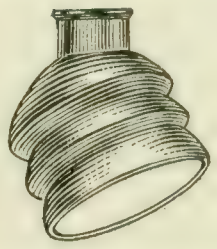
The selection of the right type of waterproofing material and the right firm to apply it is a matter of paramount importance to the construction company or to the building owner.

A man whose work in this field has made many friends because of his thoroughness is J. F. Dakin, trading as the Philadelphia Building Materials Co. Any kind of waterproofing and dampproofing work is within the province of this concern. His experts are always ready to advise just the right material to use and skilled workmen are ready to apply it. Whether the job is finishing a roof or making a foundation water tight, it is all the same, and, regardless of whether the job is large or small, attention is given that will insure satisfaction.

A few of the buildings completed by the Philadelphia Building Materials Co. are the Byberry Hospital Building, Sam Schubert Theatre, Kingsessing Library, York Lynn Apartments, Elizabeth Manor Apartments, Oxford Bank, Internes' Building, Power House and Tunnel and a new group of eight buildings of the Philadelphia General Hospital, The Philadelphia Public Library, Crum Creek Memorial Bridge of Delaware County, Inquirer Building, Walnut Hill Apartments.

To be poor in a wealthy country, to be sick in a good climate, to be inefficient among a progressive people, is a sign of unwise educational methods. Such people were not taught to battle with the world or meet life's emergencies.—Thoreau.





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274,000 PRIVATE GARAGES TO BE BUILT DURING 1926

The private garage, asserting itself in the construction of almost every new home built, presents a problem with most interesting angles. There is the architectural problem, the appearance, utility and cost, and there is the fire hazard.

Granting that the prospective home owner owns a machine, the proper housing of that machine becomes a problem for architect and builder. How great that problem is can be judged from the fact that statisticians estimate that this year will see the construction of 274,000 private garages. If those garages only average in cost one hundred dollars each, the total amount to be invested in automobile housing would amount to approximately twenty-seven and a half million dollars. As a matter of fact, we can probably safely say that more than sixty million dollars will be spent this year on private garages. The question then very naturally arises, "How can this immense sum be spent to the best advantages?"

Why the Attached Garage

We are an ease loving people. The chilly journey across the yard to a cold garage, does not appeal to us on a winter's morning. We object to a dash into the rain storm, fumbling with a garage lock. Then heating a detached garage is a problem.

For a detached garage, a separate heating plant is almost a necessity to keep the car in proper working order and to prevent its paint from checking. If any machine can make a more pitiful plea for help than a self starter in an unheated garage on a zero morning, it is unknown to us! Any experienced driver will tell you that you are laying up trouble for yourself when operating an automobile under these conditions.

But there is also an aesthetic side to the rapidly shifting position of the garage. No matter how well the detached garage may be designed, it detracts from the appearance of the backyard. When planning a garden, this building and the driveway to it always constitute a problem. If placed near the house or made a part of the house, the entire rear of the lot is left free to plant with trees, shrubs and flowers.

The Evolution of the Garage

Originally the garage was a separate unit, much as the stable used to be. Unfortunately, however, as automobiles became more numerous a tendency arose to house them in a type of overgrown woodshed. The old stable was usually designed in harmony with the house but the portable garages and the sheds for automobiles began to arise in every locality.

A more recent development has been the semi-detached garage. The result is most happy for the neighbors.

Today, the great trend is toward the attached garage and this is worthy of particular study both in its relation to architecture and fire safety.

Method of Handling the Attached Garage

Attached garages may be grouped in three distinct classes.

1. A building which is similar in most respects to the separate garage, but which is placed against the house.

2. An attached garage which is actually designed into and made a part of the house.

3. Basement garages.

In the case of the attached garage which is placed against the house, the problem is a comparatively simple one, as far as design and construction is concerned. Usually the garage becomes a wing jutting out from the rear of the house and merely separated from it by a wall of high fire resistive quality. Many codes require that this wall be carried up as a parapet, 18 inches above the roof of the garage.

Often, however, this type of garage is placed on a wing at the side of a home and forming part of the architectural treatment of that home. This method has several advantages. It makes the house seem much larger than it actually is and eliminates the driveway from that portion of the lot behind the house.

In many instances, however, our modern, narrow city and suburban lots will not allow this type of treatment particularly if a two or three car garage is desired.

Of particular interest to the builder and home owner is the fact that through this means, the garage may be attached to the house, with all the advantages that entail, at very little if any extra cost over the separate garage of like construction and architectural detail.

Make It Part of the House

It was only natural, however, when the above type of garage was planned, that the architect or owner would realize that it presented an opportunity to obtain extra second story floor space at a low cost per square foot. It would be unnecessary to dig a basement under this portion of the house and the cost of running the walls up to the second floor would be included in the cost of the garage. Hence, today, we find in even modest homes, the garage being built into the house with sleeping rooms above the garage and easily accessible from the house.

Examples of this type of construction appear everywhere and it is becoming most popular.

The Basement Garage

In many localities in which there is a heavy slope to the lot, or the house is built at a level considerably above the street grade, the garage is placed in the basement. Under the terrain conditions outlined above, this is most logical as it gives all the convenience of the attached garage and at the same time makes use of basement space which is often wasted in homes.

Fireproofing the Attached Garage

Fireproofing an attached garage is necessary, naturally. The National Board of Fire Underwriters have furnished a Code of Suggested Ordinances for Small Muncipalities. The recommendations of such an authority are as nearly final as one may find.

Cost

The cost of an attached garage is no more, if as much as, the cost of a garage of equally good construction detached from the house. Insurance is not increased, unless living quarters are over the garage. The increase even in that case is only nominal and is well worth it when the convenience and beauty of the attached garage are considered.—*Metal Lath News.*

CODE

Suggested by National Board of Fire Underwriters

Section 4. A private garage may be located beneath or attached to a dwelling, provided the following regulations as to its construction are rigidly complied with:

(a) The floor and ceiling construction above the garage when it is located beneath the building, or the roof when the garage is attached to the building, shall be unpierced and shall have a fire-resistance of one hour based upon the Standard Specifications for Fire Tests of Materials and Construction.

(b) Walls and partitions shall be of such construction as will meet requirements of the one-hour test as above specified.

Note—a minimum type of floor and ceiling construction which it is believed will meet the requirements of the specified test would be constructed as follows:

Two-inch floor joists spaced on not more than 16-inch centers and properly bridged. Overhead flooring double of 7/8-inch rough and finished floor boards with a layer of asbestos or other non-flammable floor felt between. Ceiling of heavy metal lath and Portland cement or gypsum plaster not less than 3/4 inch thick, the metal lath to be attached to the joists by 6 penny nails driven nearly home and heads turned over against the lath, the lath to be bent down 6 inches along the walls on all sides and securely attached to same. Expanded metal lath should weigh not less than 3.0 lbs. per sq. yd.

(Continued Next Week)

The BUILDERS' GUIDE is in its fortieth year of continuous publication.

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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 40
October 6, 1926

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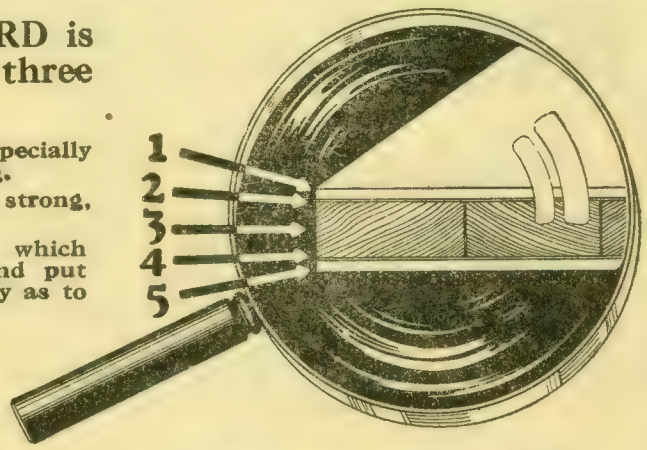
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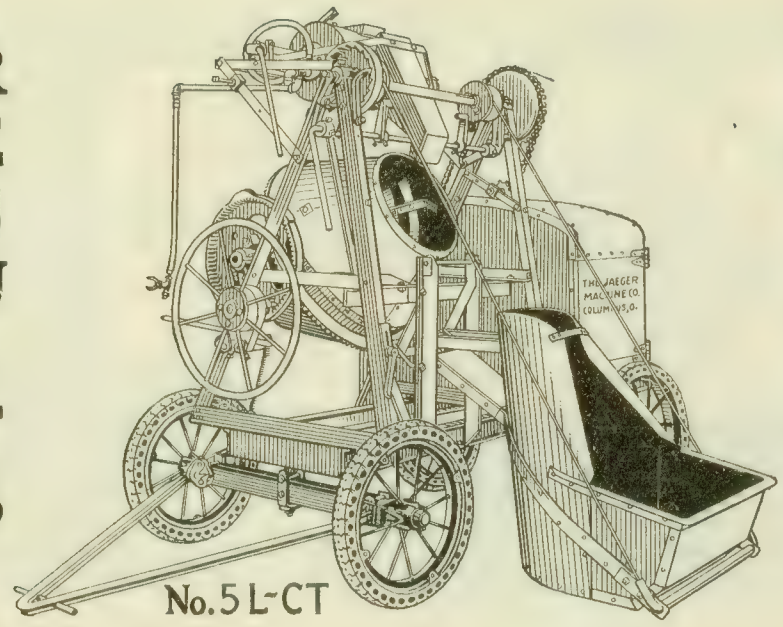
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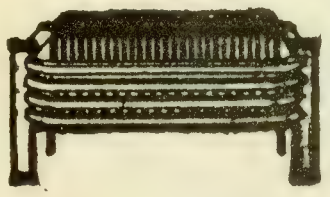
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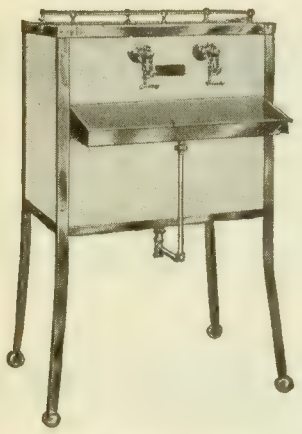
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 40

PHILADELPHIA
October 6, 1926

BUILDERS' GUIDE
PUBLISHED WEEKLY
BY
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All Subscriptions Payable in Advance

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As The Editor Sees It

The wisdom of using standard or trade marked nationally advertising building materials and equipment will be impressed in a dramatic way on the public mind during the next twelve months in the most remarkable merchandising campaign ever, organized in the building materials field.

Under the supervision of the Home Owners' Service Institute of New York City, 360 model demonstration homes will be built in the next year in 28 "key" cities of the United States in an effort to convince prospective home owners of the ultimate low cost of good grade materials compared to the cost of poor or substitute materials. The Home Owners' Service Institute is an organization pledged to raise construction standards in this country and the model house campaign is a feature of its 1926-1927 program. Such non-competitive organizations as the Lehigh Portland Cement Company, the Long-Bell Lumber Company, the Common Brick Manufacturers Association of America, and the National Fireproofing Company are members of the Institute, who believe that their sales will increase from coast to coast as a result of the educational features of this campaign.

This organization has taken the old fashioned and well known "model" house that has appeared from time to time for many years back in various department stores, subdivisions and public squares and dramatized it through the application of modern merchandising methods so business will be actually stimulated from coast to coast for the various members of the Institute and the entire building trade. A series of unusual and charming architectural designs, approved by the American Institute of Architects, have been selected for these demonstration houses that are being built of brick, stucco, frame and combinations of these materials.

A number of these houses will be opened this month (October) and others on into November and December. The cities include New York, Cleveland, Atlanta, New Orleans, Chicago, Denver, San Francisco and twenty-one other cities.

These houses will be built under architectural supervision, by Realtor-Builders, members of local real estate boards in good standing in each city and they will be built from specifications laid down by the Home Owners' Service Institute which read like a Blue Book of the building materials field. Each Realtor-Builder will construct ten houses according to these specifications; one of these houses will be the official demonstration home and will be furnished, decorated, landscaped and opened to the public for a period of four weeks. In cities like Chicago and New York, there will be from two to three Realtor-Builders included in the program, each building ten homes of nationally advertised materials, reaching a total of 360 houses in the 28 carefully located centers.

From here on, this campaign differs from any other model house demonstration ever before attempted. Back of the building of these houses is an elaborate organization covering the advertising and news columns of the dominant newspapers and trade journals, national magazines and outstanding trade journals of the country. Pages of educational advertising and publicity in these mediums will be supplemented in each city by the distribution of millions of "Manuals," setting forth the fundamental principals of good construction and the wisdom of pieces of literature calling attention to the demonstration houses and hundreds of store window displays, all urging the public to demand good construction. Three

DRAWING MATERIALS
CHARLES H. ROBBINS CO.
1729-31 Sansom Street, Philadelphia
BELL PHONE, RITTENHOUSE 7530 KEYSTONE PHONE, RACE 3519
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Are Nationally Known For Superior Quality

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Plan Reading and Estimating	30.00
Steel Square - - -	30.00
Architectural Drawing -	40.00
Blue Print Reading - -	20.00
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Many of our students have paid one of the above amounts—given up two or three nights a week for seven months—and—increased their pay fifty to one hundred per cent.

YOU CAN DO IT TOO!

WANAMAKER INSTITUTE

Twenty-third and Walnut Streets

Write or telephone Locust 31-49 for Catalogue of all Courses

million dollars will be spent in this effort in advertising of various kinds and $5,000,000 will be spent in read estate, construction labor and good grade or standard materials and equipment, a total expenditure of $8,000,000 for better building publicity. More than $100,000 is being spent in national advertising alone.

Here is a dramatization of the model house that makes it different from the oft repeated attempts to sell real estate, furnishings or builders' services by opening a finished home to the public gaze. Long before the opening of those houses, the public in each Center will be urged on all sides to consider the construction of their homes, to make sure that good grade or standard materials are being properly used by reputable contractors. The bombardment will continue after the house is open in each center, through the sponsoring newspapers and through the co-operation of public utilities that will mail out educational literature in hundreds of thousands of monthly statements, and through the efforts of the individual members of the Home Owners' Service Institute though thei local leaders.

It is the careful tie-up of this campaign with every available medium of reaching the public attention that will impress these houses so vividly on the public mind that construction standards will be established throughout the land that other builders will find it wise to follow.

The following are co-operating members of the Home Owners' Service Institute, Inc.:

American Gas Association.
The American Brass Company.
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The Edward N. Riddle Company.
The Servel Corporation.
Standard Gas Equipment Corp.
Valentine & Company.
Wasmuth-Endicott Company.

274,000 PRIVATE GARAGES TO BE BUILT DURING 1926

(Continued from last week)

For walls and partitions any construction meeting the test qualifications should be approved. In absence of test records proving that less thickness of material may be employed the following may be accepted: Brick, hollow tile, concrete block or gypsum block, 4 inches thick, or reinforced conrete 3 inches thick. The foregoing incombustible constructions are recommended.

The minimum construction meeting the requirements for walls would be a back-plastered Portland cement stucco on heavy metal lath attached to wooden studs spaced on 16-inch centers with metal lath and ¾-inch Portland cement or gypsum plaster on the inside surface. For partitions, ¾-inch Portland cement or gypsum plaster on metal lath on each side of stud construction as above specified may be accepted as fulfilling the requirement.

(c) All doors and windows with their sash and frames shall be of standard fireproof construction and glazed with wired glass.

(d) Openings from dwellings into garage shall be restricted to a single doorway; such openings shall be protected by a standard swinging self-closing fire-door with approved fire-resistance frame and hardware. No glass shall be permitted in such door.

(e) When doorway connects directly with a cellar or basement on the same or lower level in which there is any heating device or gas fixture, it shall have a sill raised at least one foot above the garage floor level; or the doorway shall lead into a vestibule from which a second door connects with the cellar or basement.

(f) Garage floor shall be of concrete or equal fire-resistive and impervious material and shall have a slope sufficient

(Continued on page 643)

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1520 Sansom Street, Philadelphia

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Catholic High School, Sixteenth and Allegheny avenue, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Archdiocese of Philadelphia, D. Cardinal Dougherty, Eighteenth and Race streets, Philadelphia. Architect selected.

Tabernacle Building, Twentieth and Brandywine streets, Philadelphia, $85,000. Architect, Amos W. Barnes, Perry Building, Philadelphia. Owners, Hebrew Tabernacle, G. Williams, 660 North Twentieth street, Philadelphia. Brick, stone, 1 story. Preliminary sketches drawn.

Alterations, 611 Vine street, Philadelphia. Architects, Bureau of Architects, Methodist Episcopal Church, Seventeenth and Arch streets, Philadelphia. Owners, Deaconess Home, on premises. Carpentry and mill work, plastering, painting and glazing, wood work. Revised plans in progress.

Residences (42), N and Lycoming streets, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 15x36 feet, (21) basement garages, slag roof, hardwood floors, cement, metal lath, tile work, hot water heat, electric light. Plans in progress.

Sales and Service Station, Northwest Corner Fifty-fifth and Walnut streets, Philadelphia. Architect, private plans. Owners, William Burstein & Brother, Sixty-first and Walnut streets, Philadelphia. Brick, steel, 2 stories and basement, 25x75 feet, cement work, electric light. Owners will take sub-bids.

Garage, 924 Spring street, Philadelphia. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owner, Joseph A. Brady, 136 South Fourth street, Philadelphia. Brick, reinforced concrete, cut stone, steel, 3 stories and basement, 97x98 feet, composition roof, cement floors, hollow tile, metal lath, rolled steel sash and doors, hollow metal door, hollow metal rolled steel sash and doors, hollow tile, waterproofing and dampproofing, granite, floor hardener, iron stairs, ornamental iron work, area gratings, steel partitions. Owner will build.

Bank Building, Ogontz and Limekiln pike, Philadelphia. Architect, J. T. Brugger, Public Ledger Building, Philadelphia. Owners, Olney Bank & Trust Co., on premises. Brick, limestone, 1 story and basement, 60x81 feet x irregular, slag roof, composition floors, electric light. Plans about completed. Will be ready for bids in a few days.

Store Building, 920 Chestnut street, Philadelphia. Architect, Benjamin Rush Stevens, 1827 Arch street, Philadelphia. Owners, Singer Sewing Machine Co., 924 Chestnut street, Philadelphia. Brick, granite, limestone, steel, 4 stories and basement, 93x20 feet, steam heat, electric light, metal lath, tile and marble work, John Mansville asbestos built-up roof, rubber tile and cement floors, hollow tile, elevators ,roof ventilators, shoring, Truscon waterproofing, terra cotta coping, ornamental iron work, iron stairs, bond, fire doors, rolled steel skylights, tile and marble work, metal lath, sprinkler systems, plumbing, metal casement windows, Stedman floors, linoleum, brass pipe. Architect taking bids due October 11th.

Factory (add.), 2801 Hunting Park avenue, Philadelphia. Architect, private plans. Owners, Tasty Baking Co., Mr. Megargee, on premises. Reinforced concrete, brick, 8 stories and basement, 110x160 feet, John Mansville asbestos built-up roof, concrete and brick floors, elevators, steam heat, electric, rolled steel sash, fire doors, plumbing, waterproofing, rolling shutter doors, brass pipe. Owners taking bids due October 14th.

Sales and Service Building, 4718 North Broad street, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth sereet, Philadelphia. Owners, Logan Oakland Motor Co., T. Hendri, manager, on premises. Brick, limestone, reniforced concrete, steel, 3 stories and basement, 60x178 feet, slag roof, cement floors. Architects taking bids due October 7th.

Garage, 254-60 South Second street, Philadelphia. Architect, Gabriel B. Roth, 1620 Chestnut street, Philadelphia. Owner, name withheld. Reinforced concrete, brick, steel, 2 stories, 280x58 feet, slag roof, cement floors, rolled steel sash, ornamental iron work. Architect taking bids due October 8th.

Home (int. alts.), 611 Vine street, Philadelphia. Architects, Bureau of Architecture of Methodist Episcopal Church, 1701 Arch street, Philadelphia. Owners, Deaconess Home, on premises. Carpentry and mill work, composition floors, demolition, electric light, hardware, iron work, painting and glazing, plastering, plumbing, sheet metal work, tile work, salt glazed tile, repairs to roof. Architects taking revised bids due October 7th.

Garage and Show Rooms, Southwest Corner Front and Westmoreland streets, Philadelphia. Architects, Watts & Coscia, Liberty Building, Philadelphia. Owner, N. H. Rochelle, 5726 North Marshall street, Philadelphia. Brick, steel, 2 stories and basement, 60x105 feet, slag roof, cement floors, ornamental iron work, rolled steel sash. Owner will build.

Residence (alts. and add.), 319 South Eighteenth street, Philadelphia. Architect, Ralph L. Goldberg, 266 South Fifteenth street, Philadelphia. Owner, Dr. N. W. Winkelman, on premises. Architect taking bids.

Sewage System, Thirty-fourth and Pine streets, Philadelphia. Architect, P. H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Health, 584 City Hall, Philadelphia. Owners taking bids due October 11th at noon. Certified check, 5 per cent.

..Residence (alts.), 1909 Chestnut street, Philadelphia, $6,000. Architect, private plans. Owner, Harry R. Rust, 19 South Eighth street, Philadelphia. General alterations. Permit issued.

Residences (9), 5420-36 Saul street, Philadelphia, $4,000 each. Architect, private plans. Owner, Wilfred Robinson, Arrott and Oakland streets, Philadelphia. Brick, 2 stories, 19x27 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (6), West side Lawndale avenue, North of Robbins avenue, $3,000 each. Architect, private plans. Owner, Morris J. Levin, 514 East Olney avenue, Philadelphia. Brick, 2 stories, 14x35 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Gas Station, Northwest Corner Broad and Godfrey avenue, Philadelphia, $3,000. Architect, private plans. Owners, Sun Oil Co., 1428 South Penn Square, Philadelphia. Steel, 1 story, 8x16 feet. Permit issued.

Residences (30), North side Rosalie street, East of Large street, $146,400. Architect, private plans. Owner, George Edel, Hillcrest and Stenton avenues, Philadelphia. Brick, 2 stories, 18x31 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Apartment House, Pine street, West of Fiftieth street, Philadelphia, $100,000. Owner, Harry Bobb, 6232 Cedar avenue, Philadelphia. Brick, 4 stories, 59x39 feet, 39x12 feet, slag roof, hardwood and pine floors, steam heat, electric light, tile work. Permit issued.

Apartment Building, South side Osage avenue, East of Forty-third street, Philadelphia, $135,000. Architects, Stetler & Deysher, 1015 Chestnut street, Philadelphia. Owner, B. W. Glover, 6050 Girard avenue, Philadelphia. Brick, 4 stories, 69x15 feet, 92x36 feet, slag roof, hardwood and pine floors, steam heat, electric light, tile work. Permit issued.

Residences (26), South side Napfle street, West of Edmund street, $92,000. Architect, private plans. Owner, Max Hankin, 2536 North Thirtieth street, Philadelphia. Brick, 2 stories, 16x27 feet, 9x13 feet, slag roof, hardwood and pine floors, electric light. Permit issued.

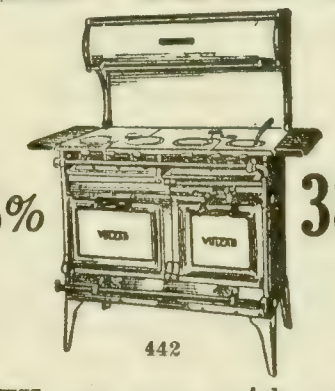
Residences (39), Felton, Harley streets, Eastwick avenue and Sixty-second street, $177,300. Owner, Jacob Korman, 1768 North Peach street, Philadelphia. Brick, 2 stories, 15x38 feet and 15x26 feet, 11x11 feet, hot water heat, electric light, slag roof, pine floors. Permit issued.

Residences (25), West side Smedley street, North of Sixty-sixth street, $101,000. Architect, private plans. Owners, W. Fischer Sons, Inc., 209 Oak Lane Trust Building, Philadelphia. Brick, 2 stories, 15x28 feet, 12x9 feet,

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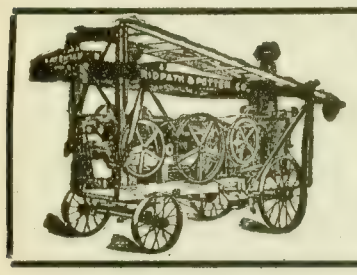
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slag roof, hardwood and pine floors, electric light. Permit issued.

Residences (28), East side Rorer street, South of Louden street, $99,500. Architect, private plans. Owners, Fishman & Fort, 1738 George's lane, Philadelphia. Brick, 2 stories, 15x26 feet, 11x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residence, South side Griffith street, West of Loretta street, $5,000. Architect, private plans. Owner, Howard Wynkoop, 2312 Coral street, Philadelphia. Brick and frame, 2 stories, 24x24 feet, slag roof, hardwood and pine floors, hot air heat, electric light. Permit issued.

Residences (5), North side Haworth street, East of Walker street, $25,000. Architect, private plans. Owner, William H. Yelland, Jr., 1350 Harrison street, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, hot water heat, electric work. Permit issued.

Residences (19), North side Pike street, East of Jasper street, $76,500. Architect, private plans. Owner, Nathan Epstein, 247 East Louden street, Philadelphia. Brick, 2 stories, 15x26 feet, 11x10 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Garage, 611-13 Catherine street, Philadelphia, $25,000. Architect, private plans. Owner, Louis Levin, 720 Wolf street, Philadelphia. Brick, 1 story, 65x202 feet, slag roof, cement floors, electric light. Permit issued.

Residence, 5232 West Rexford road, Philadelphia, $10,000. Architect, private plans. Owners, Oldhausen & Dillon, 1600 Arch street, Philadelphia. Concrete blocks, 2 stories, 20x35 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

Manufacturing Building, Clarissa street and Germantown avenue, $6,000. Architect, private plans. Owners, Oxweld Railroad Service Co., Railway Exchange, Chicago, Ill. Brick, 1 story, 14 feet 2 inches x 37 feet 4 inches. Permit issued.

Manufacturing Building, Northeast Corner Fourth and Pine streets, Philadelphia, $6,000. Architect, private plans. Owners, Oxweld Railroad Service Co., Railway Exchange, Chicago, Ill. Brick, 1 story, 14x37 feet. Permit issued.

School, Eighth and Jackson streets, Camden, N. J. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Board of Education, Camden, N. J. Low bidders: George Bachman, 19 North Thirtieth street, Camden, N. J., $212,930; G. W. Shaner & Son, Palmyra, N. J., $213,772. Heating, Harry Knecht, West Collingswood, N. J., $30,349. Plumbing, W. J. Newell, 2035 Arch street, Philadelphia, $10,300. Electric, Charles S. Wright, Camden, N. J., $6,100.

Bank and Office Building, S. E. Cor. 17th and Chestnut St., Phila. Architects, Rankin & Kellogg, 1805 Walnut St., Phila. Owner, Provident Trust Co., J. P. Townsend, 409 Chestnut St. Brick, cut stone, limestone, steel, 14 stories and basement, 75x50 feet, steam heat, electric light, metal lath, tile and marble work, slag roof, cement floors, elevators, rolled steel skylights fire doors, bond, ornamental iron work. Architect ready for bids in a few days.

Garage, N. E. Cor.. Lena and Rittenhouse Sts., Phila. $10,000. Architect, private plans. Owner, Jacob Sarshik, 5750 Wayne Avenue, Phila. Brick, 1 story, 55x70 feet, slag roof, cement floors, electric light. Permit issued.

Contract 29, D. E. & F. Delaware River Bridge. Owners, Delaware River Bridge, Jt. Comm., Widener Bldg., Phila. Owner taking bids due Oct. 13th 2.30 P. M. Deposit $25.00. Refunded. Certified Check, $500. Bond 50% Contract time, 60 calender days for plumbing, heating and electric euipment for 4th St. abutment, Phila.

College Building, 33rd and Abbotford Ave., Queen Lane and Vaux St., Phila. Architects, Ritter & Shay, Packard Bldg., Phila. Owners, Women's College of Phila., Mrs. Jas. Starr, 23rd and College Ave., Phila. Preliminary sketches being prepared.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Miscellaneous Work, Phila. Owner, Dept. of Wharves, Docks and Ferries, Pier No. 4, S. Wharves. Contracts awarded: Schedule A, Bride St. Wharf, Harry Eyre, 1212 N. Delaware Ave., Phila., $38,200. Schedule B, Construction on Fence Pier, No. 80 South, G. B. Clopp, 3717 Filbert St., Phila., $1,586. Schedule C, Repairs to Side Walks, Pine St., No. 19 Vine St., Edward Fay & Son, 2 S. Mole St., Phila, $1,650. Schedule D, Repairs to Concrete Foundations, Pier Nos. 38-40, South, Geo. Dobbins, 1020 S. 47th St., Phila., $4.90.

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Schdule E. Replacements of Flag Poles, Pier No. 16, Dock St., Jack Massler, 1361 Ridge Ave., Phila., $4.95. Schedule F, Wood Fender and Guard Logs, Municipal Pier, No. 16, H. H. Eyre, 1212 N. Delaware Ave., Phila., $2,875.

Garage, S. E. Cor. Water and Vanango Sts., Phila. $2,000. Architect, private plans. Owner, Anna Schaffer, 16 feet 6 inches by 70 feet, slag roof, cement floors. Contract awarded to Gennaro-Oliveri, 1814 Fillmore St., Phila.

Store and Residence (alts.), 3551-53 Kensington Ave. $2,000. Architect, private plans. Owners, Miriam Realty Co., 917 E. Westminster Ave., Phila. General alterations. Contract awarded to Monroe Block, 1235 N. 10th St., Phila.

New Store Building, 5611-13 North Fifth street, Philadelphia. Architect, Edwin Rothschild, Bankers' Trust Building, Philadelphia. Owner, Zola Rosenfeld, 2900 North Fifth street, Philadelphia. Brick, cut stone, limestone, steel, 3 stories and basement, 220x35 feet, slag roof, composition, rubber tile and cement floors, elevators, plumbing, ornamental iron work, iron stairs, kalamein doors, rolled steel sash, steam heat, oil burner, electric light, steel partitions, sprinkler system, ornamental bronze. Contract awarded to S. A. Sims, 2315 Walnut street, Philadelphia.

Stores (3), 117 West Chelten avenue, Philadelphia. Architect, S. W. Marshall, Weightman Building, Philadelphia. Owner, Alfred M. North, on premises. Brick, 1 story, 60x40 feet, slag roof, maple floors, gas heat, electric light, metal bulks and ceilings. Contract awarded J. R. Erbe, 2551 North Sixty-first street, Philadelphia.

Garage (alts.), 126-32 Race street, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Berger Brothers, 239 Arch street, Philadelphia. Lower cement floors to new level, cement work, concrete. Contract awarded F. G. English & Son, 1610 North Carlisle street, Philadelphia.

Residence (alts. and add.), 48 East Penn street, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, B. G. Waring, on premises. Brick, 2½ stories and basement, painting, glazing, sheet metal work, plumbing, tin roof, hot water heat, electric light, metal lath, tile work. Contract awarded I. A. Dunkelberger, 71 East Herman street, Philadelphia.

Residence, West Chester, Pa. Architect, Charles Barton Keen, 339 South Smedley street, Philadelphia. Owner, David M. McFarland, care of architect. Stone, 2½ stories, slate roof, hardwood floors, tile work (plumbing, heating, electric work reserved). Contract awarded Smedley & Hoopes, West Chester, Pa.

Office and Loft Building, Thirteenth, Wood and Carlton streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owner, Mr. Heid, care of Barber, Hartman Co., Commonwealth Building, Philadelphia. Brick, cut cast stone, steel ,concrete, 8 stories and basement, 143x71 feet, vacuum heat, electric light, metal lath, kalamein doors, bond, floor hardener, iron stairs, ornamental iron work, plumbing, elecators, terra cotta, hollow tile, cement and tile floors, composition roof, oil burning equipment, sprinkler system, steel toilet compartments, steel stacks, demolition, area gratings, tin-lined fire doors. Contract awarded J. S. Rogers Co., Drexel Building, Philadelphia.

Bank Building (add. and alts.), 5001-03 North Broad street, $50,000. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, Germantown Trust Co., on premises. Brick, 1 story, 22 feet 9 inches x 55 feet, general alterations. Contract awarded to Hoggson Brothers, 485 Fifth avenue, New York.

Milling Plant, Pier 6, North, Port Richmond, Philadelphia, $30,000. Owners, National Carbon Co., Pier No. 6, North, Philadelphia. Concrete, steel, 1 story, 40x80 feet. Contract awarded to Central Cont. & Const. Co., Drexel Building, Philadelphia.

Garage and Service Station, South side Winona avenue, West of Morris street, $20,000. Architect, private plans. Owners, Jacob Brothers' Motor Co., 5424 Germantown avenue, Philadelphia. Brick, 1 story, 68 feet x irregular, slag roof, cement floors. Contract awarded to Carr & Courtenay, 3025 Poplar street, Philadelphia.

Office (alts.), 4058 Chestnut street, Philadelphia, $7,600. Architect, private plans. Owners, Rutherford & Fisher, on premises. General alterations. Contract awarded to Warren E. Biscoe, 3946 Baring street, Philadelphia.

Garage (alts.), Southeast Corner Sixty-first and Vine streets, Philadelphia, $6,000. Architect, private plans. Owner, I. Ginsburg, 1105 Somerset street, Philadelphia. General alterations. Contract awarded to Louis Suldloff, 4917 Sansom street, Philadelphia.

Loading Platform, Southwest Corner Twentieth and Washington avenue, $8,000. Owners, Lit Brothers, Eighth and Market streets, Philadelphia. Contract awarded to William Linker Co., 735 Cherry street, Philadelphia.

Residence, East side Fourth street, North of Sixty-seventh avenue, Philadelphia, $5,900. Architect, private plans. Owner, H. L. Pearce, 226 Hurley street, Philadelphia. Frame, 2 stories, 24x26 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to Harry Shifer. Jenkintown road and Avenue C, Philadelphia.

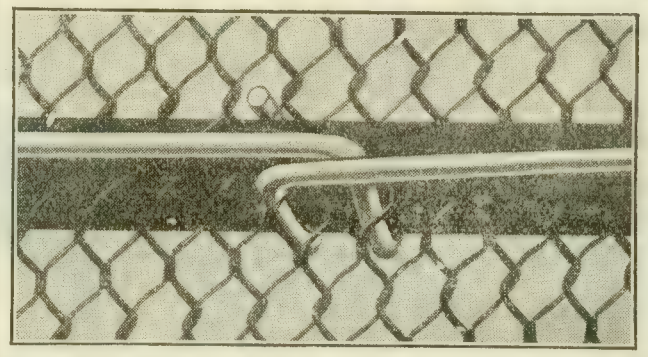
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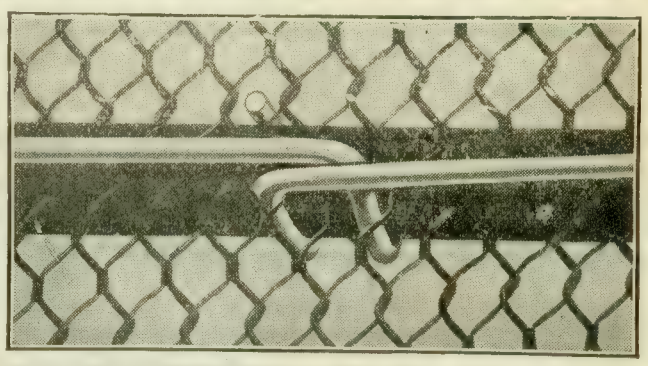
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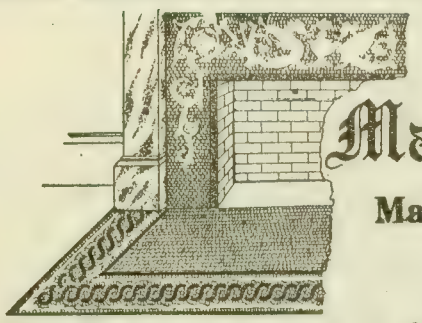
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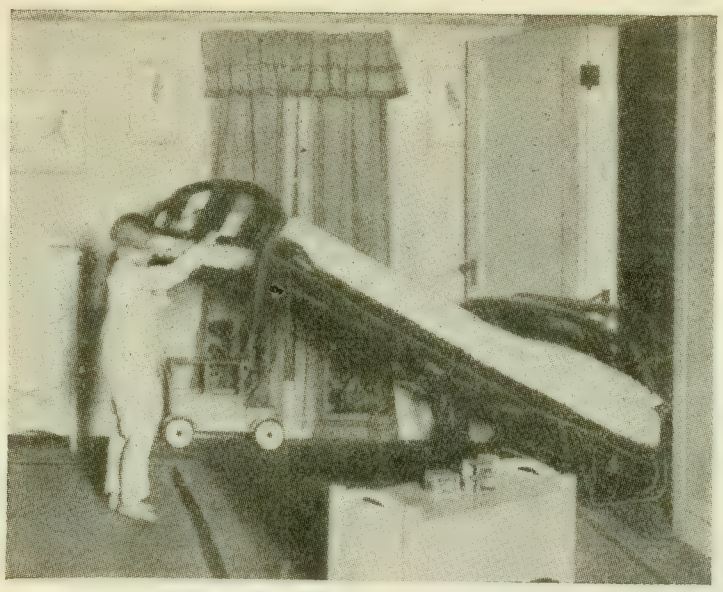
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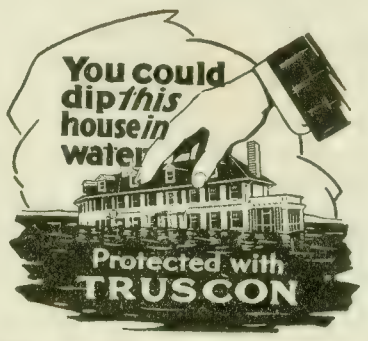
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Lansing avenue, Philadelphia, $4,000. Architect, private plans. Owner, Rose Davis, 4288 Pine street, Philadelphia. Frame and brick, 2 stories, 16x38 feet, pine floors, electric work. Contract awarded to Lewis Ahlers, Rhawn and Large streets, Philadelphia.

Store and Storage (alts.), 23 North Tenth street, Philadelphia, $3,000. Owner, Benjamin Joffe, 602 North Second street, Philadelphia. General alterations. Contract awarded to Abe Joffe, 602 North Second street, Philadelphia.

Paint Shop, South side Frost street, East Walker street, Philadelphia, $2,000. Owner, William Stout, Welsh road, West of Frankford avenue, Philadelphia. Brick, 2 stories, 36x31 feet. Contract awarded to Holmesburg Concrete Co., Holmesburg, Philadelphia.

Storage Building, 614 Addison street, Philadelphia, $6,000. Architect, private plans. Owner, John W. Harper, 614 Addison street, Philadelphia. Brick, 3 stories, 26x55 feet. Contract awarded to H. C. Dahl, 231 South Eighth street, Philadelphia.

Residence, South side Audrey street, West of Tulip street, Philadelphia, $5,000. Architect, private plans. Owner, Peter J. McCabe, Convent lane, Torresdale, Philadelphia. Frame, 2 stories, 24x26 feet, 8x8 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to Malcher McCabe, Convent lane, Torresdale, Philadelphia.

Bottling Plant (add. and alts.), Northeast Corner Emerald and Huntingdon streets, Philadelphia, $6,000. Architect, private plans. Owners, Pennsylvania Bottling & Supply Co., Kensington avenue and Monmouth street, Philadelphia. General alterations and additions. Contract awarded to A. J. Hummel, 2057 East Allegheny avenue, Philadelphia.

Garage (alts.), 4836 Chestnut street, Philadelphia, $5,000. Architect, private plans. Owners, West Philadelphia Sales Co., Forty-ninth and Chestnut streets, Philadelphia. General alterations. Contract awarded to E. V. Holland, 539 Beverly boulevard, Darby, Pa.

Residence, West side Foster, North of Bensalem pike, Philadelphia, $6,000. Architect, private plans. Owner, Samuel K. Foster, Byberry, Philadelphia. Frame, 2 stories, 24 feet 6 inches x 36 feet 6 inches, hardwood and pine floors, electric light. Contract awarded to Robert Speahr, Byberry, Philadelphia.

Home for Aged (add.), East side Eighteenth street,North of Jefferson street. Architece, private plans. Owners, Little Sisters of the Poor, on premises. Brick, 1 story add., 13x22 feet, slag roof, pine floors, electric work. Contract awarded to D. W. O'Dea, 420 West Duncannon street, Philadelphia.

Incinerating Plant, Fifty-first and Gray's Ferry road, Philadelphia, $408,400. Architect, private plans. Owners, Department of Public Works, City of Philadelphia. Contract awarded to Decarie Incinerator Co., 342 Madison avenue, New York City.

Warehouse, 2446-50 Germantown avenue, Philadelphia, $30,000. Architect, private plans. Owners, Asam Brothers, 919 Arch street, Philadelphia. Brick, 3 stories, 54x90 feet. Contract awarded to Fred Candidus, Berlin, N. J.

Residence, 2417 North Fifty-first street, Philadelphia, $12,500. Architect, private plans. Owner, Frank A. Wilson, 2417 North Fifty-second street, Philadelphia. Concrete block, 2 stories, 26x38 feet, hot water heat, electric light, tile work, electric light, hardwood floors. Contract awarded to George W. Bottoms, Merion, Pa.

Shed, 1539-41-43 North Twenty-sixth street, Philadelphia, $10,000. Architect, private plans. Owners, Supplee-Wills-Jones Co., 1533 North Marvine street, Philadelphia. Brick, 1 story, 55x87 feet. Contract awarded to George Kessler Cont. Co., 1733 North Marvine street.

Apartment House, 610-12 South American street, Philadelphia, $9,000. Owners, Ukranian League of Philadelphia, 610 South American street. Brick, 3 stories, 27x39 feet, hot water heat, electric light, slag roof, pine floors. Contract awarded to Romeo Bayol, 6309 Chester avenue, Philadelphia.

Garage, West side Seventh street, South of City Line, Philadelphia, $6,000. Architect, private plans. Owners, George B. Newton Coal Co., on premises. Brick, 1 story, 36x56 feet, slag roof, cement floors, electric work. Contract awarded to Stewart Brothers Co., 2526 North Orkney street, Philadelphia.

Storage Building (add.), 1230 South Twenty-second street, Philadelphia, $3,000. Architect, private plans. Owner, M. Deblasio, 2139 Oakford street, Philadelphia. Brick, 1 story add., 12x14 feet. Contract awarded to M. Zelenze, 2425 South Clarion street, Philadelphia.

Garage, Southwest Corner Walnut lane and Mitchell street, Philadelphia, $3,000. Architect, private plans. Owner, Joseph T. Leewright, on premises. Brick, 1 story, 18x71 feet, cement floors, electric light. Contract awarded to John J. Hurley, 2138 Arch street, Philadelphia.

Pennsylvania Construction News

Bank, Ardmore, Pa. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owners, Ardmore Title & Trust Co., Ardmore, Pa. Brick, limestone, steel, stone, 2 stories. Working plans in progress.

Residence, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, Frank L. Walley, Chestnut street, Spring City, Pa. Brick, 2 stories, 54x24 feet, asbestos shingle roof, oak and tile floors, steel beams, Morgan doors, steel and wood sash, metal lath and celotex (heating, electric and plumbing reserved). Plans in progress.

Stores, Offices and Apartments, Collegeville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, Collegeville Hardware & Supply Co., W. W. Harley, proprietor, Trappe, Pa. Brick, stone, 3 stories, 40x130 feet, built-up roof, concrete and maple floors, fireproofing, metal skylights, bond, wood bulks, store fixtures, steel and wood sash (heating, plumbing, electric reserved). Plans completed. Owners taking bids.

School, North Wales, Pa. Architect, I. T. Catherine, Franklin Trust Building, Philadelphia. Owners, School Board, North Wales, Pa. Brick, 1 story, 11 rooms and auditorium. Plans in progress. Will be ready for bids early in 1927.

Grade School, Lansdale, Pa. Architect, W. K. Phillips, 215 South Fifth street, Philadelphia. Owners, Board of Education, Lansdale, Pa. Will contain auditorium, gymnasium, 2 stories, 14 class rooms, brick, stone, 2 stories. Plans about completed. Will be ready for bids in two weeks.

Garage and Apartment, Northampton, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Mr. Michel, Northampton, Pa. Brick, steel, 3 stories, 60x130 feet, slag roof, concrete and wood floors, va-

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por heat, electric light, tile, marble, steel sash. Owner will build.

Junior and Senior High School, Red Lion, Pa. Architect, Clayton J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Red Lion School Board, Red Lion, Pa. Brick, steel, cut stone ,2 and 3 stories and basement, 172x115 feet (plumbing, heating and electric separate), composition and slag roof, cement and maple floors, hollow tile, roof ventilators, shoring, metal lath, terrazzo work, rolled steel sash, bond, ornamental iron work, casement steel sash, cinder concrete block, metal toilet partitions, metal lumber, iron grilles. Owners taking bids due October 18th.

Vocational Training School, Church and Oak streets, Norristown, Pa. Architect, E. Lane Crawford, Curren Arcade, Norristown, Pa. Owners, School Board of Norristown, J. A. Akins, president, H. R. Kratz, secretary, Norristown, Pa. Brick, 2 stories and basement, 55x75 feet, slag roof, maple floors, steam heat, electric light, rolled steel sash, plumbing. Owners taking bids due October 8th at noon.

Theatre, Media, Pa. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, Dembrow Amusement Co., care of architect. Brick, granite, concrete, steel, 1 story and basement (heating and electric reserved), slag roof, cement floors, plumbing, ornamental terra cotta, ornamental iron work, metal lath, terrazzo and marble work, kalamein doors, ornamental iron work, bluestone, limestone, bronze work, metal toilet partitions. Architects taking bids due October 8th.

Monsignor Masson Memorial School, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Hospital, 421 Chew street, Allentown, Pa. Brick, stone, steel, 3 stories, 66x120 feet, built-up roof, hardwood floors, hollow tile, safety treads, roof ventilators, waterproofing, dampproofing, ornamental iron, iron stairs, fire doors, steel sash, metal lath (heating, plumbing, electric reserved). Architects taking bids due October 12th at 10 A. M.

Country Club, Torresdale, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Torresdale and Frankford Country Club, care of G. Evans, Chairman of Building Committee, Torresdale avenue, Tacony, Pa. Architects taking bids due October 14th at 4 P. M.

Residence and Garage, Bryn Mawr, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, G. Herbert Taylor, Esq., Bryn Mawr, Pa. Stone, 2½ stories, 30x53 feet, 1 story, 18x22 feet, hardwood floors, electric light, tile and marble work. Architects taking bids due October 11th.

Sewer, Ridley Park, Pa. Engineers, Damon & Foster, 6932 Market street, Upper Darby, Pa. Owners, Borough of Ridley Park, Newton E. Hoopeman, Fire House, Ridley Park, Pa. Terra cotta pipe sewer, Hinckson Boulevard tract. Certified check, $300. Owners taking bids due October 12th, 8 P. M.

High School, Ephrata, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Ephrata School Board, J. M. Baum, secretary, Ephrata, Pa. Low bidders: A. L. Gerhart, Ephrata, Pa., $89,788. Heating and ventilating, American Heating & Ventilating Co., 1505 Race street, Philadelphia, $12,590. Plumbing, Musselman & Schwartz, 130 North Christian street, Lancaster, Pa., $7,385. Electric, Mentler Electric Co., Ephrata, Pa., $5,250.

Highway Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Owners taking bids due October 15th at 10 A. M.

Cambria County, R-221, A-4241, Clearfield and Allegheny Townships, Ghost Springs Borough, 12,668 feet. One course reinforced concrete. Certified check, $2,500.

Chester County, A-4117, East Brandywine Township, 3,551 feet. One course reinforced concrete. Certified check, $1,500.

Delaware and Montgomery Counties, R-516, A-4383, Radnor, Haverford, Lower Merion Townships, 15,363 feet. One course reinforced concrete. Certified check, $2,500.

Elk County, A-4327, Ridgway Township, 2,822 feet. Bituminous surface treated macadam. Certified check, $1,500.

Fayette County, R-118, Section 2, Bellevernon Borough, 1,745 feet. One course reinforced concrete. Certified check, $1,500.

Jefferson County, R-61, A-4213, Snyder Township, 13,518 feet. One course reinforced concrete. Certified check, $2,500.

Lehigh County, A-4298, Whitehall Township, 3,721 feet. One course reinforced concrete. Certified check, $1,500.

Mifflin County, A-4262, Derry Township, 5,530 feet. Bituminous surface treated macadam. Certified check, $2,000.

Northampton County, R-175, Section 4, A-3364, Lehigh Township, Walnutport Borough, 18,950 feet. One course reinforced concrete. Certified check, $3,000.

Potter County, R-103, A-4235, Lewisville Borough, 11,159 feet. Bituminous surface treated macadam. Certified check, $2,500.

Schuylkill County, R-464, A-3925-3926, Section 1, Gilberton and Shenandoah Boroughs, West Mahanoy Township, 8,576 feet. Bituminous surface course on broken stone base. Certified check, $2,000.

Somerset County, R-52, A-3725-26, Jenner and Conemaugh Townships, 12,237 feet. One course reinforced concrete. Certified check, $2,500.

Somerset County, R-222, Windber Borough, 2,180 feet. One course reinforced concrete. Certified check, $1,500.

Warren County, R-94, Section 2, Warren Borough, 1,537 feet. One course reinforced concrete. Certified check, $1,000.

Warren County, A-4104, Pleasant Township, 13,495 feet. One course reinforced concrete. Certified check, $2,500.

York County, A-2003-B, Codorus Township, 16,721 feet. One course reinforced concrete. Certified check, $3,000.

Road Work, Pennsylvania. Low bidders. Received September 24, 1926.

Potter County, R-318, A-4285, Genesee Township. Bituminous surface treated macadam. D. L. Dennis, Galeton, Pa., $51,590.10.

Delaware County, R-133, A-4382, Upper Darby Township. One course reinforced concrete. McNichol Paving & Const. Co., 1823 Cherry street, Philadelphia, $53,244.57.

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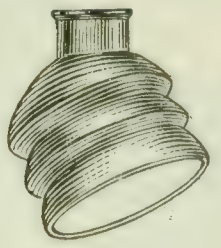
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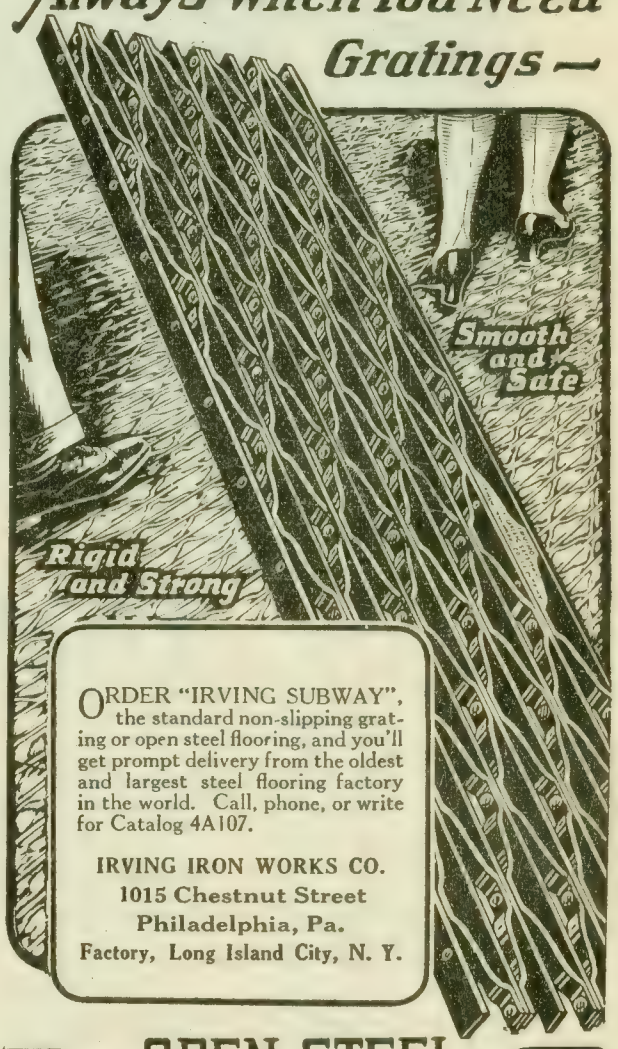
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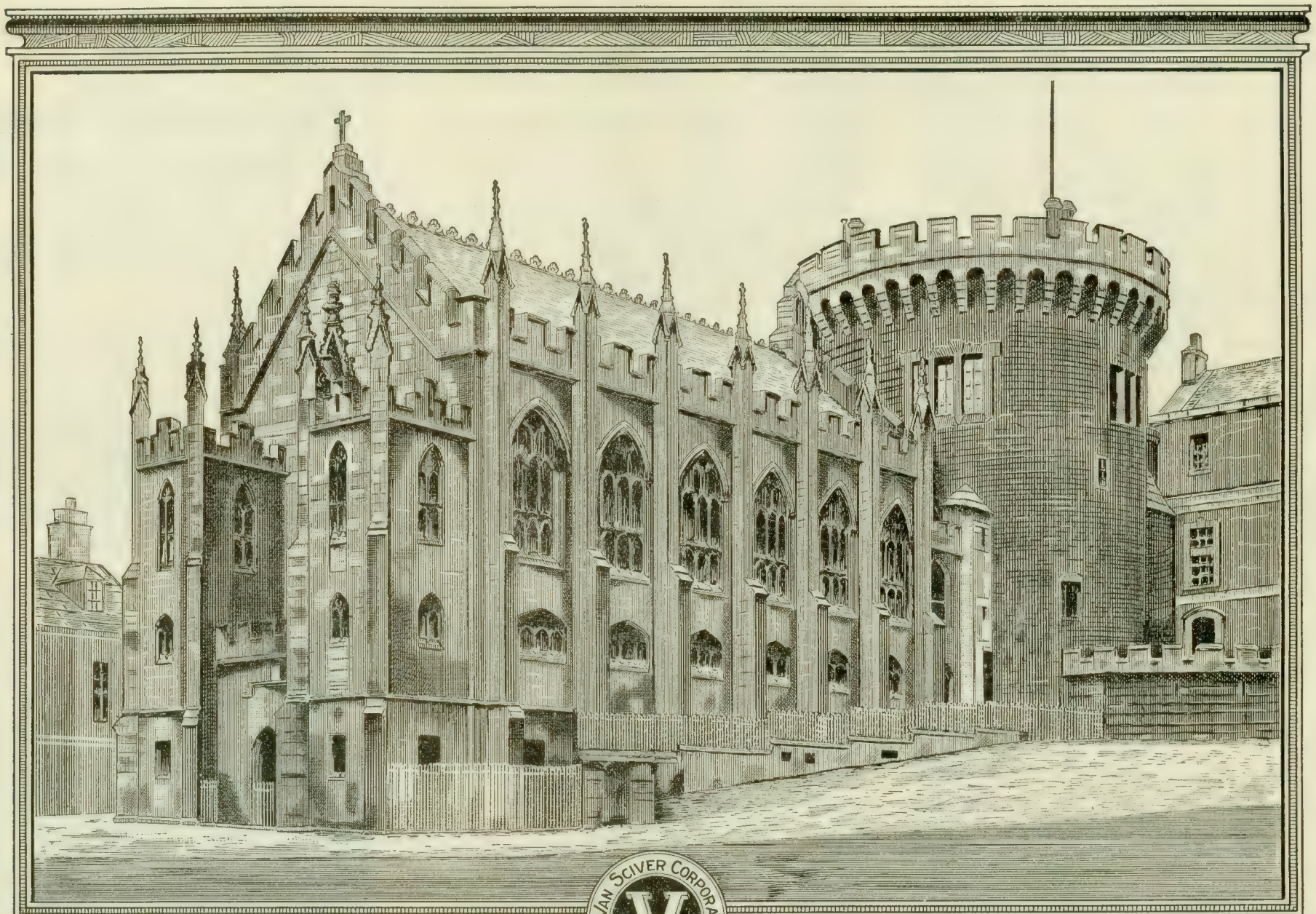
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Delaware County, R-132, A-4381, Trainer Borough. One course reinforced concrete. Bryant & Kohl, Inc., Wilkes-Barre, Pa., $91,-264.80.

Dauphin County, Plaza at Capitol Building, Harrisburg, Pa. One course reinforced concrete. J. A. Albright, Penbrook, Pa., $25,598.65.

Montgomery County, A-4271, Abington Township. One course reinforced concrete. Benjamin Foster Co., Twentieth and Venango streets, Philadelphia, $31,545.28.

Crawford County, R-89, S-4, West Mead Township. One course reinforced concrete. Ernest J. Bailey, Brocton, N. Y., $40,433.54.

Armstrong and Indiana Counties, R-319, A-4127, 4103, Armstrong and South Bend Township, Shelocta Borough. One course reinforced concrete. McClure & Dingner Co., Inc., Johnstown, Pa., $159,365.11.

Northumberland County, R-1, A-3075, Jackson and Lower Augusta Townships. One course reinforced concrete. William M. Moser, Mt. Carmel, Pa., $116,249.45.

Clarion County, R-214, A-3151-B, Monroe Township. One course reinforced concrete. F. S. Wilson, Kittanning, Pa., $90,980.97.

Allegheny County, R-257, A-4322, North Fayette Township. One course reinforced concrete. Thomas Cronin Co., Pittsburgh, Pa., $69,471.36.

Dauphin County, R-339, A-4160-4161, Lykens Township, Gratz Borough. One course reinforced concrete. Lincoln Const. Co., Strafford, Pa., $123,600.49.

Elk County, R-99, Spur A, A-3910, St. Mary's Borough, Benzinger and Fox Townships. One course reinforced concrete. E. C. Jones, Salamanca, N. Y., $156,191.28.

Beaver County, R-270, A-3359, Brighton Township. One course reinforced concrete. F. F. Hallam & Son, Beaver, Pa., $32,095.35.

Clearfield County, R-62, Spur Curwensville Borough, Pike and Pern Townships, Lumber City Borough. Bituminous surface treated macadam. Davis Schoentag, Inc., Saugerties, N. Y., $179,964.59.

Allegheny County, A-3756, McCandless Township. One course reinforced concrete. Thomas Cronin Co., Pittsburgh, Pa., $52,-135.99.

Pike County, R-167, Lehman, Delaware and Dingman Townships. One course reinforced concrete, grading and drainage. Rudolph & Delano, Tamaqua, Pa., $224,944.69.

Delaware County, A-4263, Thornbury Township. One course reinforced concrete. Juniata Co., Empire Building, Philadelphia, $51,302.22.

Fayette County, A-247, Section 9, Fayette City Borough, Washington Township. One course reinforced concrete. Petriello Brothers, South Brownsville, Pa., $59,284.31.

Pennsylvania Contracts Awarded

Residence and Garage, Merion, Pa. Architect, S. W. Marshall, 1524 Chestnut street, Philadelphia. Owner, D. R. Wentz, Merion, Pa. Stone, 2½ stories and basement, 30x40 feet, wing 16x16 feet, garage, 1½ stories and basement, 18x18 feet, shingle roof, oak and pine floors, ornamental iron work, tile work, hot water heat, electric light. Contract awarded N. H. Rochelle, 5726 North Marshall street, Philadelphia.

Club House, Lafayette road, near West Conshohocken, Bryn Mawr, Pa. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Philadelphia Country Club, Bala, Pa. Stone, brick, cut stone, 2½ stories and basement, slate roof, cement floors, oak, composition and linoleum floors, ornamental iron work, bond, metal lath, tile and marble work, plumbing. Contract awarded C. C. Edleman, 1627 Sansom street, Philadelphia.

Grade School, Wanamie, Newport Township, Pa. Architect, R. M. Herr, Simon Long Building, Wilkes-Barre, Pa. Owners, Newport Township School Board, Mr. Shiffka, Glen Lyon, Pa. Semi-fireproof, 2 stories, 10 rooms, flat roof, maple floors, safety treads (electric light, plumbing and heating separate). Contract awarded to H. Milander, 167 Barney street, Wilkes-Barre.

State Highway Work, Pennsylvania.

Luzerne County, R-5, DuPont Borough. One course reinforced concrete. Contract awarded B. G. Coon Const. Co., Luzerne, Pa., $73,963.37.

Allegheny County, R-181, A-1058-A, Forward Township. One course reinforced concrete. Contract awarded to Donora Const. Co., Donora, Pa., $53,610.22.

McKean County, R-211, Foster Township. One course reinforced concrete. Contract awarded to Fred D. Ross, Bradford, Pa., $132,041.91.

Cambria County, R-276, Cresson Township. One course reinforced concrete. Contract awarded to Clark Brothers Co., Cherry Tree, Pa., $75,390.63.

Westmoreland County, R-119, Sections 4a and 6, Unity Township. One course reinforced concrete. Contract awarded to J. C. Mickey, Latrobe, Pa., $41,491.55.

Storm and Sanitary Sewer, Bridgeport, Pa., $144,001.75. Architect, private plans. Owners, Borough of Bridgeport, J. English, Bridgeport, Pa. Contract time, 225 days. Contract awarded C. J. McCarthy Co., Colonial Park, R. D. No. 4, Harrisburg, Pa.

New Jersey Construction News

Residence and Garage, Hightstown, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mayor Thompson, Hightstown, N. J. Stone, 2½ stories, 50x108 feet, 40x25 feet, stonefield slate roof, oak and slate roof, vapor heat, electric light, tile and marble, ornamental iron, ornamental plaster. Plans in progress.

Residence, Sea Girt, N. J. Architects, W. W. Slack & Son, St. Regis Building, Trenton, N. J. Owner, Thomas Thropp, Sea Girt, N. J. Frame, 2½ stories, 70x30 feet, shingle roof, hardwood floors, tile work, vapor heat, electric work. Ready for bids at end of week.

Pier, Sea Isle City, N. J. Architects, Watts & Coscia, 1504 Locust street, Philadelphia. Owner, Cini & Co., Sea Isle City, N. J. General alterations and additions. Plans in progress.

Foulon Building, 506 Federal street, Camden, N. J. Architect, H. A. Allen, 526 Stephen street, Camden, N. J. Owner, Bernhard C. Foulon, care of architect. Brick, steel, stone, limestone, marble, bronze, 3 stories, 20x146 feet, slag roof, wood, cement and terrazzo floors, steel sash. Architect taking bids due October 9th at noon.

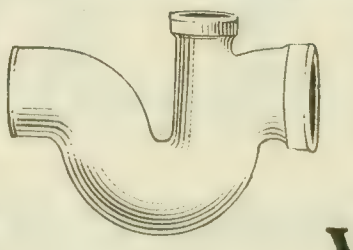
Apartment, Chelsea, N. J. Architect, A. B. Steelman, Guarantee Trust Building, Atlantic City, N. J. Owner, H. Halpern, care of architect. Brick, stone, steel, 5 stories, 38x83 feet, slag roof, hardwood floors, hollow tile, elevators, oile work, metal lath, electric light (heating reserved). Architect taking bids due October 13th.

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Gloucester, N. J. Architect, Engineer of Buildings, 261 North Broad street, Philadelphia. Owners, Delaware & Atlantic Telegraph & Telephone Co., care of Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Bond, demolition, carpentry and mill work, plastering, hardware, slag roof, painting and glazing, electric work, plumbing, hot water heat. Owners taking bids due October 9th.

Power House, New Jersey Training School for Feeble Minded, Totowa, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Brick, concrete, limestone, steel, 1 story and basement, 94x48 feet. Lowest bidders: C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., $74,600. Plumbing, G. T. Tobin, Trenton, N. J., $1,775. Electric, Hoffner & Elias, Trenton, N. J.

Residences (alts. to Garages), High street, Burlington, N. J. Architect, H. A. Brown, Burlington, N. J. Owner, Edward Super, Burlington, N. J. General alterations and additions. Plans in progress.

Hospital (add.), Mt. Ephraim and Atlantic avenues, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Engineer, E. Powers, 1520 Locust street, Philadelphia. Owners, West Jersey Homeopathic Hospital, J. Scott, 537 South Second street, Camden, N. J. Brick, steel, 3 stories and basement, 40x130 feet, Barrett specification roof, cement floors, safety treads, roof ventilators, metal lath, tile and marble work, ornamental iron work, iron stairs (plumbing, heating, electric separte bids). Architects taking bids.

Residences, 1025-27-29 Morton street, Camden, N. J., $7,500. Architect, private plans. Owner, Edward Praiss, 1566 Mt. Ehpraim avenue, Camden, N. J. Brick, 2 stories, 13x38 feet, slag roof, hot water heat, electric light. Permit issued.

Residencve, 1261 Dayton street, Camden, N. J., $6,500. Architect, private plans. Owners, Costanza Brothers, 1540 Mt. Ephraim avenue, Camden, N. J. Brick, 2 stories, 16x54 feet, slag roof, hot water heat, electric light. Permit issued.

Residences (8), 950-64 North Twenty-third street, Camden, N. J., $32,000 Architect, private plans. Owner, Fred L. Eichfeld, 3100 Highland avenue, Camden, N. J. Block, 2 stories, 15x34 feet, asphalt roof, hot water heat, electric light. Permit issued.

Residences (7), 101-13 Terrace avenue, Camden, N. J., $28,000. Architect, private plans. Owner, Paul Everly, 253 South Twenty-seventh street, Camden, N. J. Brick and block, 2 stories, 18x34 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (2), 3320-22 Pelham Place, Camden, N. J., $7,000. Architect, private plans. Owner, Alfonso Verdi, 6145 Girard avenue, Philadelphia. Frame, 2 stories, 15x52 feet, slag roof, hot water heat. Permit issued.

New Jersey Contracts Awarded

James Madison Hotel, Virginia avenue and Boardwalk, Atlantic City, N. J. Architect, William Macy Stanton, Land Title Building, Philadelphia. Owners, Virginia Hotel Corporation, Atlantic City, N. J. Brick, reinforced concrete, steel, 15 stories, basement and pent house, 100x150 feet, slag roof, composition and cement floors, hollow tile, plumbing, steam heat, electric light, metal lath, tile and marble work, rolled steel sash, kalamein and hollow metal doors, metal weather strips, integral waterproofing, architectural terra cotta, ornamentla iron work, treadlite floors, mail chute, bronze work, fiber floor covering. Contract awarded Taylor Meyer Co., Pittsburgh, Pa.

Springside School (add.), Burlington, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Board of Education, Burlington, N. J. Brick, steel, 2 stories, 45x60 feet, slag roof, concrete floors. Contract awarded to C. S. Moses, Edgewater Park, N. J., $43,000. Plumbing to L. Hunt, Burlington, N. J., $1,361. Heatin gto J. Irvin, Burlington, N. J., $5,644. Electric to W. L. Gaunt, Burlington, N. J., $650.

Shedaker School (add.), Burlington, N. J. Architect, W. A. Klemann, First National Bank Building, Trenton, N. J. Owners, Burlington Board of Education, Burlington, N. J. Brick, 1 story, 48x60 feet, shingle roof, concrete floors. Contract awarded to Scalzi Mancuso, Trenton, N. J., $25,216. Electric to W. L. Gaunt, Burlington, N. J., $625. Plumbing to L. Hunt, Burlington, N. J., $1,087. Heating to Mechanical Equipment Co., 214 South Twelfth street, Philadelphia, $4,100.

Residence, Allentown, N. J. Architects, P. L. Fowler Co., 224 East Hanover street, Trenton, N. J. Owner, J. W. Naylor, Allentown, N. J. Frame, 2½ stories, 33x44 feet, asbestos shingle roof, hardwood floors. Contract awarded to H. B. Knowles, Yardville, N. J.

Office Building and Apartment, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owner, C. J. Adams, Real Estate and Law Building, Atlantic City, N .J. Brick, stone, steel, 3 stories, 33x172 feet, slag roof, hardwood floors, city heat, electric light, tile and marble, fire escape. Contract awarded to Hartman-Beck, Inc., 601 Adriatic avenue, Atlantic City, N. J.

Garages (18), Friends avenue and Penn street, Camden, N. J., $35,000. Architect, Howard Hall, Camden, N. J. Owner, Jacob Rosenkrantz, 901 Market street, Camden, N. J. Brick and block, each 9x18 feet, second floor 40x100 feet, slag roof. Contract awarded to M. W. Cooperson Co., Van Russ Building, Camden, N. J.

New Store Front and Alts., 523 Haddon avenue, Camden, N. J., $2,350. Architect, Alfred Green, 548 Federal street, Camden, N. J. Owner, Harry J. Wagner, 523 Haddon avenue, Camden, N. J. New flush bulks, new windows, removal of stairway, alterations. Contract awarded to William C. Magee, 315 Cattell avenue, West Collingswood, N. J.

Residences (2), Washington street, Trenton, N. J., $8,000. Architect, private plans. Owner, JosephTuccillo, 332 Emory avenue, Trenton, N. J. Brick, 2 stories, 14x44 feet, slag roof, pine floors, electric work. Contract awarded to Guiseppo Tuccillo, 332 Emory avenue, Trenton, N. J.

Residence, 534 Second street, Trenton, N. J., $7,400. Architect, private plans. Owner, Elizabeth Knapp, 534 Second street, Trenton, N. J. Brick, 2½ stories, 16x32 feet, slate roof, pine floors, electric work. Contract awarded A. J. Gerger, 503 Dayton street, Trenton, N. J.

Building (add.), 1930 South Sixth street, Camden, N. J., $6,250. Architect, private plans. Owner, Samuel Langston, Sixth and Jefferson streets, Camden, N. J. Brick, 1 story, 21x43 feet, slag roof, electric light. Contract awarded to Benjamin F. Harvey, 1109 Empire avenue, Camden, N. J.

Garage and Alts. and Add., 1028 South Third street, Camden, N. J., $2,200. Architect, private plans. Owner, Luigi Procacci, Camden, N. J. Brick add., 2 stories, 16x15 feet, general alterations, garage, 1 story, 9x18 feet, slag roof. Contract awarded to Salvatore Sylvester, 213 South Fourth street, Camden, N. J.

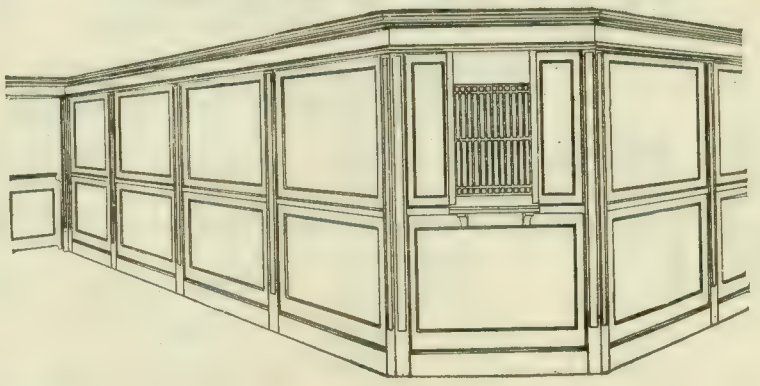
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Tank, Northeast Corner Seventh and State streets, Camden, N, J., $2,000. Architect, private plans. Owners, C. Howard Hunt Pen Co., on premises. Steel and wood, 15,000-gallon capacity. Contract awarded to Reliance Tower & Steel Const. Co., Brooklyn, N. Y.

Building (alts.), 932-34 South Third street, Camden, N. J., $5,250. Architect, Howard Stevenson, 5142 Akron street, Philadelphia. Owner, Max Sbar, on premises, General alterations. Contract awarded to Michael Kerschner, 2419 North Fifty-sixth street, Philadelphia.

Miscellaneous Construction News

Rectory, Wilmington, Del. Architect, George I. Lovatt, 223 South Sydenham street, Philadelphia. Owners, St. Peter's Roman Catholic Church, Wilmington, Del. Stone, 2 stories. Architect taking bids due October 9th.

(*Continued from page* 632)

to permit natural drainage of gases, oil and water to the outside.

(g) Separate means of exit from all dwelling quarters in such buildings shall be provided; such exits shall be separated from the garage section by a partition having a fire resistance of one hour based upon the Standard Specifications of Fire Tests of Materials and Construction. The Building Official shall also have the power to require the construction and maintenance of outside stairways or fire escapes wherever he shall deem the same essential for safe exit in case of fire.

(h) There shall be no stove or forge in any private garage except in a heating room thereof, which heating room shall be separated from every other part of the garage by partitions having one hour fire resistance fitted tightly to floor and ceiling. There shall be but one door to such heating room, which door, unless opening from the exterior, shall be self-closing standard fire door closing against a sill not less than 12 inches above the floor at the foot of the door.

* * *

We draw your particular attention to articles a and b of this approved ordinance. Undoubtedly the least expensive method of complying with the code is to use metal lath and ¾-inch of plaster on the under side ceiling joists and the same on both sides of 2x4 inch studding in the walls. This construction has received the full one hour fire rating which is demanded by the proposed ordinance. Also note that backplaster stucco on metal lath affords minimum cost construction for exterior walls.—*Metal Lath News.*

HOW TO ADD YEARS TO OAK FLOOR SATISFACTION

By the E. L. Bruce Co., Memphis, Tenn.

In the larger cities, floor laying companies have developed methods and have adopted formulae for the laying and finishing which have proven highly satisfactory. In many cases these methods differ, due to local conditions or methods of application.

It is the purpose of this article, therefore, to put information in the hands of the man who is not thoroughly familiar with all of the essentials of oak floor laying. We do not discount methods that floor layers in the larger communities have adopted after years of experience, but offer these suggestions for the man who has not had that experience, and who is looking for information.

Not only in clubhouses, hotels, apartments and other public buildings, but in private homes as well, no woodwork stands out more prominently nor is capable of giving so much satisfaction to the owner as well-laid and finished oak floors.

The floor layer who gives attention to the following points can do much toward securing a well-laid and finished oak floor, and at the same time eliminate all possibilities of trouble and dissatisfaction on the part of the owner.

The Subfloor Must Be of Thoroughly Dry Material

If the subfloor under an oak floor is of green lumber, or if it has absorbed dampness in any way, this dampness will be absorbed by the oak flooring that is laid over it. This will tend to make the oak floor buckle or cup.

The Subfloor Should Be Reasonably Sound and Level

The subfloor should be so sound that the nails will hold well If the oak flooring is to lay easily and make a quiet floor with a minimum of scraping, the subfloor should be level. It is not a difficult matter to plane down all uneven places in a subfloor, and when done, the oak flooring can be laid with much greater speed.

The subfloor should be gone over carefully and renailed where necessary to make it firm. Loose, sqeaky subfloors are often the cause of squeaky oak floors.

Oak Flooring Should Not Go Into Buildings Until Plaster is Dry

Due to its tendency to absorb moisture, oak flooring should not be placed in a damp building either for storage purposes or prior to laying. Wait until the plaster is thoroughly dry, and the wiring and plumbing mechanics have left the building.

An Insulator Between Subfloor and the Oak Floor

A substantial rag felt paper thoroughly saturated with genuine asphalt is the best insulator. This asphalted felt, or a heavy tarred felt (not less than 20 pounds) does much to protect the oak flooring from dampness entering through the back.

While there is still a possibility for the oak flooring to absorb dampness through the top if the finish is not carefully applied and kept up in good condition, it is a good plan to use this asphalted or tarred felt. In addition to its ability to withstand moisture penetration to a considerable extent, it is also effective as an insulator against cold, acts as a sound deadener as well as a cushion for the oak floor. This paper in addition retards termites (insects that sometimes bore into and seriously damage interior woodwork).

Nails—An Important Factor

Well manufactured oak flooring need not be pounded together, provided the nails do not split the tongue and are properly driven. The proper selection of nails is therefore an important factor. We recommend the following:

For 13/16-inch oak flooring use 7d cut flooring nail or 8d bright casing nail, spaced 12 to 16 inches apart.

For ½-inch oak flooring use a 5d finishing nail about 8 to 10 inches apart.

For ⅜-inch oak flooring use a 4d finishing nail, spaced about 6 inches apart.

Nails should be slanted so the point of the nail when driven through the tongue penetrates the back of the flooring at the first edge of the recess. This will hold the flooring firmly and pull the edges snug. Strips should not be driven up excessively tight.

The appearance and condition of an oak floor before and after finishing de-

TILE
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5th and Market Streets, Camden, N. J.
BELL PHONE, CAMDEN 3210 KEYSTONE, CAMDEN 3147

pend largely on the method and skill of mechanics responsible for the fitting and nailing.

Laying Out the Floor

Many floor layers find it helpful to lay out the floor before commencing to nail it. In this way they have an opportunity to match the color of adjoining boards more closely and to take care of the varied lengths.

Finishing Oak Floors

On some jobs the floors are scraped and sanded by the floor layer and the finishing done by a painter. On other jobs the floor layer does both the sanding and the finishing. Here again, we do not want to discount finishing methods adopted by those familiar with the work, so the following suggestions are general and will prove satisfactory under average conditions.

An oak floor should be finished as soon as possible after laying. The first step is that of scraping which can be done either by hand scrapers or by machines. In the case of hand scrapers always work with the grain of the wood.

After the scraping is completed the floor should be gone over with a fine standpaper. In case there are spots on the floor that have been caused by dropping oil or other matter you can best clean them by rubbing with steel wool dipped in turpentine. DO NOT WASH A NEW FLOOR WITH WATER, AS THIS RAISES THE GRAIN and will not get out the spots as will the other method.

After the floor has been carefully sanded, wipe up all dust with a soft cloth. A PASTE filler should be used on oak as it is an open pore wood and this filler penetrates the pores and makes an ideal base for shellac, wax or varnish finish.

Paste filler should be applied with a clean rag or waste. Before it is thoroughly dry wipe all excess filler off, either with burlap, excelsior or waste. This should be wiped off ACROSS THE GRAIN so as to remove as little of the filler from the grain of the wood as possible. When the filler is dry, sand the floor thoroughly with 0 sandpaper, and after the dust is cleaned up with a sott cloth the floor is ready for either the shellac, wax or varnish finish.

Finishing Materials

Many people think that all that is needed for successful work is fine material for the last coat. No greater mistake can be made. No matter how good the final finish may be, the undercoatings must be equally as good to get the best final appearance.

The slight variation in price between good and poor materials, whether shellac, wax or varnish, should not stop the floor layer from using the very best obtainable in his locality.

Shellac As a Floor Finish

The use of shellac for finishing flooring has been widespread because it is cheaper than varnish. Shellac enables one to have a floor finished cheaply without sacrificing beauty. Shellac, however, does not have the durability possessed by other finishing materials, and it is usually considered best to apply a coat or two of wax over it to protect it from deterioration from the action of the air and moisture in the atmosphere.

In many cases shellac is favored because it dries so quickly. A second coat can be applied soon after the first coat has been sanded after drying and the floor is ready for use in a comparatively short time.

If Wax Is to Be Used for Finishing

The wax finish for oak flooring is preferred by many, due to economy not only in the first coat, but in the ease and economy in renewing places that show wear. The renewing may be easily taken care of by the housekeeper or a servant. Wax, like the good grades of varnish, is absolutely transparent and does not hide the grain. It gives a lustre to the floor that is desirable to many home owners. Wax does not become brittle, nor does it scratch or mar as easily as some finishes.

In using wax as the finishing material it is not necessary to use either shellac or varnish under it. Wax makes an ideal floor finish when applied directly over paste filler.

A good method for applying floor wax is to place a small quantity of wax between two or three thicknesses of cheese cloth, forming a sort of bag. The wax will work through the meshes of the cloth as it passes over the floor, thus insuring a thinner, more even coat than if you put the wax on the outside of a cloth and apply it direct. Allow about fifteen minutes for this coat of wax to dry, then rub to a polish with a weighted floor brush or an electric polishing machine.

In an hour or two a second coat of wax should be applied the same as the first. This second coat is not absolutely necessary, but it will give a more durable, wear-resisting finish.

The Varnish Method of Finishing Oak Floors

For the best results three coats of good varnish should be used, although two coats will be found very satisfactory. It is important to start out with a clean brush, using a large bristle brush, either oval or flat.

Each coat should be allowed to become thoroughly hard during a period of twelve to twenty-four hours and should then be sanded lightly with 00 sandpaper and the dust thoroughly cleaned up before the next coat. Under favorable conditions twenty-four to forty-eight hours should pass between sandpapering and the application of the next coat.

The final coal may be left in the natural gloss or may be brought to a dull finish by rubbing with pumice stone and oil three or four days after the last coat has been applied.

The varnish finish is usually more expensive than the wax or shellac finishes, but it gives a very hard surface, which at the same time is durable and elastic.

Don'ts for Varnishing

Do not varnish over dusty, greasy, damp or injured surfaces.

Do not undertake fine work with dirty varnish pots, dirty brushes or dirty cloths.

Never wet the brush with oil or turpentine while applying varnish.

Do not shake the can before using. It causes numerous bubbles.

Do not pour unusued varnish back into the can. Reserve it for less particular work.

Do not mix two different varnishes together, as you change their nature entirely, and produce a new varnish that should be aged before using.

Never apply a second coat of varnish before the first one has dried hard. Cracking is often due to failure to observe this rule.

Do not try to spread varnish that has become chilled. Likewise the room should be warm when the varnish is applied.

Floor Oil Finish

In some classes of buildings, such as warehouses, office buildings, factories, schools, and other public buildings, a high class finish is not always desired. The floor oil finish is an economical one and light flooring oil is used. The oil is made expressly for the purpose by many paint and varnish manufacturers, and one of its advantages, which incidentally makes it a low cost finish is that this oil acts as filler as well as finish.

—*The Associated Contractor.*

Don't be discouraged if you make an occasional mistake; if men didn't there wouldn't need to be any claw on a hammer.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
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Weil, J. H., Co. .....1315 Cherry St., Phila.

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Excelsior Brick and Steel Sales Co.,
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Massiah, Frederick.Juniper and Cypress Sts., Phila.

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Potts, Horace T., & Co...Erie Ave. & "D" St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.

FIREPROOFING
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

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Selby Battersby & Co.....810 Noble St., Phila.

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Wood, Alan, Iron & Steel Co...Widener Bldg., Phila.

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Thomson. Wm., Inc. .....64 N. 2nd St., Phila.

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Architectural Cast Cut Stone Co.....Westmont, N. J.
John Meehan & Son .....916 W. Dakota St., Phila.

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Lewis, John W. .....7038 Gray's Ave., Phila.

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Fleck Bros. Co. .....50 N. 5th St., Phila.

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"ANTI-HYDRO" Keeps a Canal Out of this Building

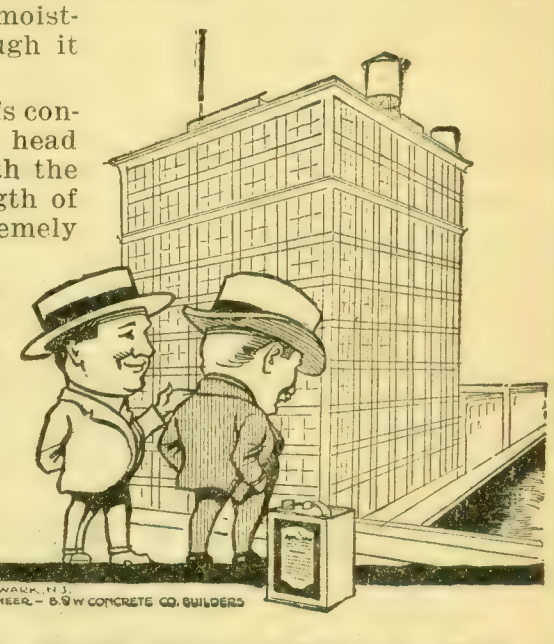
The concrete basement wall is also the canal wall. Water flows continually against the outside, but the inside of the wall is dry as a bone.

This concrete wall was waterproofed with "ANTI-HYDRO" thirteen years ago. Not a drop of moisture has ever penetrated through it during all these years.

"ANTI-HYDRO" waterproofs concrete *permanently* against any head of water. It also increases both the tensile and compressive strength of concrete and makes it extremely hard, all in *one operation.*

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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 41
October 13, 1926

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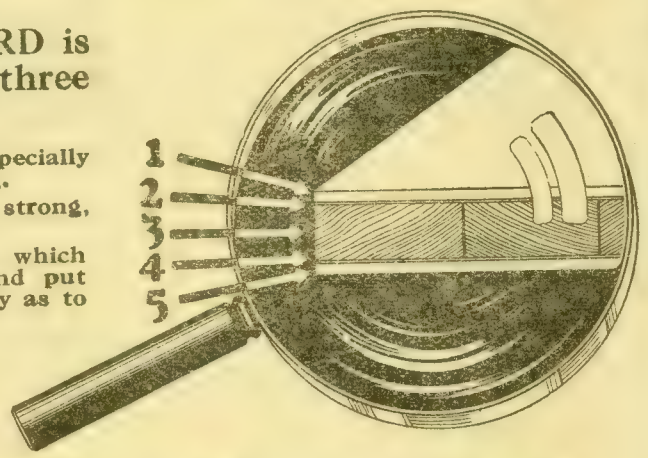
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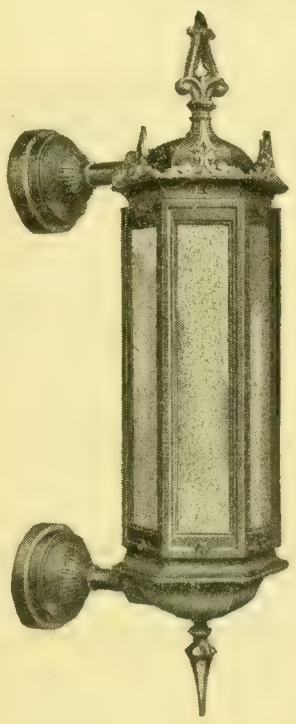
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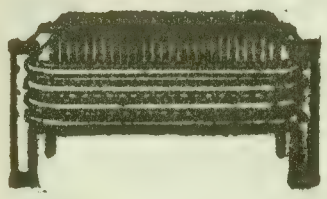
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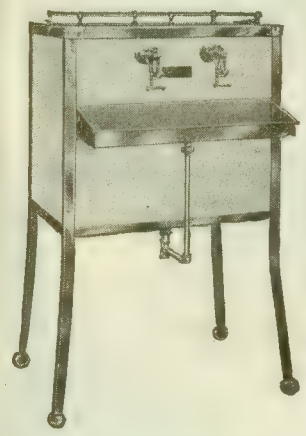
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

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Number 41

PHILADELPHIA
October 13, 1926

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As The Editor Sees It

WHY A GENERAL CONTRACTOR?

BY HARRY CARLETON

Way back in the reign of Caesar Augustus, a learned gentleman by the name of Vitruvius was the Imperial Architect, and he addressed a series of articles or essays to his Royal Employer. These articles are called Vitruvius' "Ten Books of Architecture," and offer some interesting reading.

In those days, it seems the architect was the General Contractor as well as the designer, and, apparently, under the law, no architect was permitted to start a job unless his personal estate was equal in value to the estimated cost of the work. In case the job overran the estimate, the Architect had to make good the difference himself, and his reputation suffered severely. A plan such as this, effective today, would certainly make bidding much less of a hit or miss proposition, and would eliminate many architects and contractors from a lot of work. We moderns handle the same idea in a slightly different way. We bond our contractors to insure the completion of the work—but the owner pays for the bond. He may not realize that he's paying for it, but it's in the bid somewhere, and the bonding company runs the risk.

Building wasn't such a complicated affair then as it is now. It was more massive, and to some extent more enduring. That last statement is made advisedly, for our modern steel-concrete buildings haven't been in use long enough for us to determine their length of life, while many Roman buildings are still standing. But when Vitruvius was practising his art, building was of necessity massive. Structural steel was unknown, and each unit had to carry not only its own weight but also had to support other units, hence the great thickness of walls. Plumbing, electric wiring, woodwork, floor-scraping and a lot of other trades were unknown, or at least little in use in Vitruvius' day. Masonry, plastering and painting or decoration were his chief trades. What plumbing was done was done by masons.

But in spite of the fact that building was a much less complicated affair, no building project of any importance was undertaken without the services of the architect, and to use a modern aphorism, the Augustan architect had to "know his oil!" Consider, then, the temerity, the nerve, and the boldness of Mr. Modern Man who scorns not only the services of architect, but also disdains to employ a General Contractor, and blithely sets sail to build him a house in which no less than seventeen different trades play a part! We gasp at dare-devil feats of acrobats, racing drivers, aeronauts; we thrill at the chances taken by some financial wizards, but the fellow who starts to build a house by direct labor doesn't raise a ripple. Yet he's a lot more foolhardy than these professional hair-raisers who are trained to do their stunts, and who figure to the fractional part of an inch before they tackle their stunts. They risk nothing in many of these stunts—the laws of gravity and momentum governing their acts, but the man who builds by direct labor takes all kinds of chances.

And the reason these men try to build by direct labor is to save money! They tackle a large investment and try to put it over by themselves, urged on, after having seen a clever General Contractor skillfully and speedily put up buildings, by thinking they can do the same things themselves. Nearly every man who tries this stunt is steadily employed and has only his after-working hours to devote to the job of building. Try to get one of these fellows to invest several thousand dollars into a part-time proposition, and they'll tell you how crazy you are,

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but they'll cheerfully gamble thousands in buiding a house on their own part-time and vast ignorance.

Yet not one of these men tries to buy cloth, linings, buttons, etc., and hire a bushelman to build him a suit. Not one of them buys a motor, frame, wheels, fenders, etc., and hires a mechanic to assemble them into an automobile. Not one of them would put his savings into an institution where the man who handled the affairs of the bank devoted only after-working hours and Saturday afternoons to the banking business. But they tackle the job of building, and it is to the everlasting credit of builders supply men and others that the owner doesn't get stuck worse than he does.

Now I do not mean that building is a fearsome and awesome job. It isn't—to the trained man of experience, but it is apt to be a Gargantuan task to the one who hasn't the knowledge. Knowledge and experience are what you buy when you let your home building job to a general contractor. It is just as foolish to try to save money by dispensing with the services of Architect and General Contractor as it is to try to save money by being your own lawyer, doctor or dentist.

I do not mean to decry the practice of doing without a General Contractor when an Architect is retained. Many Architects prefer to deal with the various trades direct, and in such cases the owner runs no risk, for the Architect is also a trained man of knowledge and experience.

But—the majority of homes are erected without the services of an Architect, and in such cases the General Contractor has a definite and useful place. What does he do to earn his fees?

First let us assume that your General Contractor is a man worthy of his title. He is a business man, is intelligent, honest, trustworthy, and has experience—the same qualities that make you have confidence in your favorite department store. As a business man your contractor is in touch with the market for labor and material. He knows a good workman when he sees him; he knows good material when he sees it; he knows where to get good labor and good material. His experience has taught him that certain firms do not stand back of their products the way others do; he knows what constitutes a day's work for tradesmen. He places all this knowledge and experience at your disposal and serves you as loyally and efficiently as any good business man serves his customers. He knows the value of good will; he knows that the best advertising he can get is your word of mouth commendation to others, and he works faithfully to earn your confidence.

It is his experience in building that saves you dollars. He knows how to get satisfactory results without needless waste. He knows the rotation in which the trades should work to achieve the best results. He knows the building codes, and he works to give you the satisfactory job you require. He works not only during the day, but also at night. Each day he checks up on what he planned the night before, and half his evening is spent in your service. Regular hours know him not, but the Midnight Oil and he are well acquainted in order that everything may progress on schedule.

Yet some misguided ones think they can "beat the game" by dispensing with the hard-working General Contractor's services. They think they can come into the open market and beat the man whose business it is to know the market.

That's why Wall Street keeps going. There are always men who are sure they can "beat the game." There are always lambs to be shorn by Wall Street.

—*Building Industry.*

Statement of the Ownership, Management, Circulation, etc.

Statement of the ownership, management, circulation, etc., of The Builders' Guide, published weekly at Philadelphia, Pa., required by the Act of August 24, 1912, for October 1, 1925.

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Known bondholders, mortgages and other security holders holding one per cent. or more of total amount of bonds, mortgages or other securities, none.

(Signed)
Building News Publishing Co.,
Louis S. DeLone, Business Manager.

Sworn and subscribed before me this 17th day of September, 1926.

H. A. Lang, Notary Public.

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Residence, Ridge pike and Manatawna avenue, Roxborough, $100,000. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owner, Reed A. Morgan, West End Trust Building, Philadelphia. Stone, 2½ stories. Preliminary plans in progress.

Stores (4), Apartments (alts. and add.), Southeast Corner Fifth and Lehigh avenue, Philadelphia. Architect, Edward Roth, Drexel Building, Philadelphia. Owner, H. Chervin, Atlantic City, N. J. General remodeling, steam heat, eleteric light, tile work, hardwood floors, plumbing, metal ceilings, plate glass, metal bulks. Plans in progres.

Apartment House, Northwest Corner Tioga and Carlisle streets, Philadelphia. Arhcitect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, Max Hankin, 2536 North Thirtieth street, Philadelphia. Brick, stone, 3 stories, 25x90 feet, slag roof, hardwood floors, vapor heat, electric light, metal lath, tile work, Murphy beds, kitchen equipment, incinerator. Plans completed. Owner ready for sub-bids.

Fur Cleaning and Dyeing Establishment, Southeast Corner Second and Glenwood avenue, Philadelphia. Architect, Solomon Kaplan, 10 S. Eighteenth street, Philadelphia. Owners, Betzold Brothers, on premises. Brick, steel, concrete, 1 and 2 stories, irregular in size, slag on concrete roof, cement floors, rolled steel sash, hollow metal skylights. Plans about completed. Architect ready for bids in a week.

Swimming Pool (alts. and add.), Woodside Park, Pa., $50,000. Architect, Edward Schoeppe, 1437 Spruce street, Philadelphia. Owners, Woodside Real Estate Co., Woodside Park, Pa. New filter building, frame, 1 story, slag roof, cement floors, refreshment building, frame, 1 story, tile roof, cement floors, store house, reinforced concrete, slag roof, cement floors, cement walks, pipe railings, piping, plumbing, concrete work. Plans about completed. Architect ready for sub-bids.

Residences (80), Torresdale and Enfield avenues, Philadelphia. Architect, Samuel Abramson, 2315 Walnut street, Philadelphia. Owner, Samuel Moyerman, 2315 Walnut street, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, pine floors, cement work, hot water heat, electric light, metal lath, tile work, garages in basement. Architect taking sub-bids.

Residences (48), Belmont and Conshohocken road, Philadelphia. Architect, private plans. Owner, name withheld. Stone, concrete block, brick, stucco, 2½ stories, 20x45 feet, slate roof, hardwood floors, plumbing, hot water heat, electric light, tile work, flagstone, Craftex work. Plans about completed. Carl F. Hirsch, 1718 Cherry street, Philadelphia, taking sub-bids.

Store Building. Hunting Park avenue and Pennsylvania Railroad, Philadelphia. Architect, private plans. Owner, Stephen Hass, Land Title Building, Philadelphia. Brick, steel, 2 stories and basement, 105x84 feet (plumbing, heating and electric reserved), metal lath, bond, ornamental iron work, slag roof, cement floors, metal ceilings, plate glass, acst stone. Owner taking bids.

Alterations and Additions, 6327-29 Woodland avenue, Philadelphia. Architect, private plans. Owners, F. W. Woolworth Co., Wilkes-Barre, Pa. New store front, carpentry and mill work, plastering, steam heat, electric light, metal lath, ornamental iron work. Owners taking bids due as soon as possible.

Apartment House, Pine street, between Fiftieth and Fifty-first streets, Philadelphia. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owner, Harry Bobb, Forty-seventh and Larchwood streets, Philadelphia. Brick, steel, 4 stories, 36 apartments, slag roof, hardwood floors, vapor heat, electric light, fire tower, elevators. Plans in progress.

Apartment House, Locust and Hanson streets, Philadelphia. Architects, J. L. Stetler and H. M. Deysher, Jefferson Building, Philadelphia. Owner, L. A. J. Robbins, North American Building, Philadelphia. Brick and concrete, 3 stories, steam heat, electric light, tile and marble work, slag roof, hardwood floors. Plans in progress.

Apartment House, South side Pine street, between Forty-seventh and Forty-eighth streets, Philadelphia. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owners, Herman & Bobb, 4945 Sansom street, Philadelphia. Brick, stone, steel, 6 stories, 110x204 feet, 110 apartments, elevators, hardwood floors, vapor heat, electri clight, tile work, slag roof. Plans in progress. Architects will take bids in one month.

Church (fire repairs and add.), Twelfth and Lehigh avenuee, Philadelphia. Architect, George E. Savage, Witherspoon Building, Philadelphia. Owners, Cookman Methodist Episcopal Church, Rev. E. Bawden, 1209 West Lehigh avenue, Philadelphia. Plans in progress. Will be ready for bids in 6 weeks.

Garage, Juniper and Cherry and Watts streets, Philadelphia. Architetcs, Hoffman-Henon, Finance Building, Philadelphia. Owner, name withheld. Reinforced concrete and brick, 3 stories and basement. Architects taking bids due October 25th.

Residences (7), East side Seventy-second street, North of Yocum street, $32,000. Architect, private plans. Owner, Edwin J. King, Sr., 2109 South Seventy-second street, Philadelphia. Brick, 2 stories, 14x24 feet, 11x7 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (66), Marcella, Summerdale, Granite and Loretto streets, $332,000. Architect, private plans. Owner, J. G. Hartnett, 1159 Bridge street, Philadelphia. Brick, 2 stories, 15x38 feet and 15x28 feet, 11x9 feet, slag roof, hot water heat, electric light. Permit issued.

Residences (16), 1140-70 Anchor street, Philadelphia, $65,000. Architect, private plans. Owners, George R. Osborne & Son, 5014 Saul street, Philadelphia. Brick, 2 stories, 15x27 feet, 12x10 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (10), North side Lansing avenue, West of Loretto street, $45,000. Architect, private plans. Owners, Castor Highland Development Co., Castor avenue and Hartel street. Brick, 2 stories, 16x24 feet, 19x16 feet, slag roof, hardwood and pine floors, electric light. Permit issued.

Residences (8), North side Croyden street, West of Thompson street, $20,000. Architect, private plans. Owner, Stanley Bialas, 4353 Belgrade street, Philadelphia. Brick, 2 stories, 16x44 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (60), Redfield street, Kingsessing to Greenway avenue, $216,000. Architect, private plans. Owners, Gillingham & Hyman, Sixty-sixth and Guyers avenue, Philadelphia. Brick, 2 stories, 16x31 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (20), 7300-38 Briar road, Philadelphia, $88,800. Architect, private plans. Owner, Raymond G. Frick, 1400 West Erie avenue, Philadelphia. Brick, 2 stories, 15x28 feet, 11x8 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Bungalows (2), South side Chandler street, East of Verree road, $4,000 each. Architect, private plans. Owner, Edwin Davis, 7802 Verree road, Philadelphia. Frame, 1 story, 26x36 feet, electric light, pine floors. Permit issued.

Garage, Southeast Corner Second and Clearfield streets, Philadelphia, $3,000. Architect, private plans. Owners, Allegheny Iron & Metal Co., on premises. Brick, 1 story, 25x80 feet, slag roof, cement floors, electric light. Permit issued.

Garage and Storage Building, 1324 West Tioga street, Philadelphia, $2,500. Architect, private plans. Owner, M. Simon, 4727 North Eighth street, Philadelphia. Brick, 1 story, 35x30 feet, slag roof, cement floors, electric work. Permit issued.

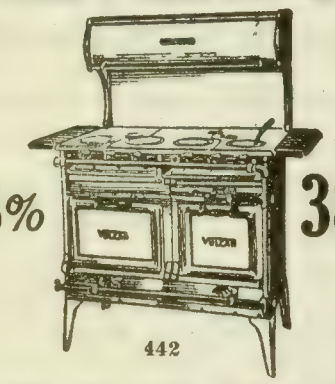
Residences (9), South side Robbins avenue, West of Shelburne street, $36,500. Architect, private plans. Owner, Joseph W. Schorn, 901 Unruh street, Philadelphia. Brick, 2 stories, 15x28 feet, 11x9 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (32), West side Lawrence street, South of Godfrey avenue, $145,000. Architect, private plans. Owners, T. J. & F. Kiely, 7032 Greene street, Philadelphia. Brick, 2 stories, 15x29 feet, 12x13 feet, slag

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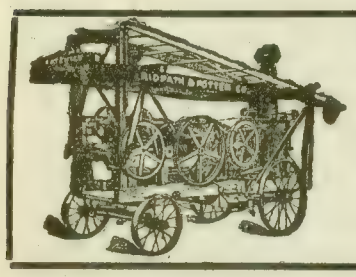
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Club House (alts.), 251 South Eighteenth street, Philadelphia, $8,000. Architects, De Armond, Ashmead & Bickley, 20 South Fifteenth street, Philadelphia. Owners, The Art Alliance, on premises. General alterations. Permit issued.

Power Station (alts.), Southwest Corner Second and Wyoming avenue, $6,000. Architect, private plans. Owners, Philadelphia Rapid Transit Co., Eighth and Dauphin streets, Philadelphia. General alterations. Permit issued.

Residences (34), South side Sparks street, West of Mascher street, $164,600. Architect, private plans. Owner, Thomas J. Kelly, 2028 Sixty-sixth avenue, Philadelphia. Brick, 2 stories, 15x27 feet, 12x10 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Apartment House (add.), 120-22 South Fortieth street, Philadelphia, $40,000. Architect, private plans. Owner, William T. Harris, 105 South Fortieth street, Philadelphia. Brick, 3 stories add., 55x54 feet, slag roof, hardwood and pine floors, vapor heat, electric light. Permit issued.

Residence, North side Hellerman street, West of Rising Sun avenue, $7,000. Architect, private plans. Owner, Harry Melcher, 930 Hellerman street, Philadelphia. Brick. 2 stories, 16x48 feet, slag roof, hardwood and pine floors, electric light. Permit issued.

Residences (2), Ewing avenue, North of Seventy-seventh street, Philadelphia, $5,000 each. Architect, private plans. Owner, Peter Massina, Seventy-seventh and Holstein avenue, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, hardwood and pine floors, hot air heat, electric light. Permit issued.

Sales Room, 4213 Frankford avenue, Philadelphia, $5,000. Architect, private plans. Owner, Harry Snyder, 4213 Frankford avenue, Philadelphia. Brick, 1 story, 25x60 feet, slag roof, electric light. Permit issued.

Schools (2), Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Low bidders: School, Baltimore and Thomas avenues, Philadelphia, McCloskey Co., 1620 Thompson street, Philadelphia, $368,863; Robbins Cont. Co., 1137 North Front street, Philadelphia, $384,000; plumbing, William Newell & Son, 2035 Arch street, Philadelphia, $17,658; heating, McClintock & Co., 5608 Race street, Philadelphia, $33,785; ventilating, A. & W. Wegeman, 2813 West Fletcher street, Philadelphia, $1,244; electric, Mitchell & Co., 1337 McFerran street, Philadelphia, $6,990. Low bidders: Shallcross School—McCormick-Lenham, Broad and Tasker streets, Philadelphia, $16,735; R. S. Herzog, 10 South Eighteenth street, Philadelphia, $16,786; plumbing, Fred Wackenhut, 2416 Frankford avenue, Philadelphia, $1,765; electric, Walker & Kepler, 535 Chestnut street, Philadelphia, $678; heating, Edward Roberts, 2622 Columbia avenue, Philadelphia, $1,208.

Starr Garden Recreation Center, Seventh and Lombard streets, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Works, Bureau of Recreation, 595 City Hall. Low bidders: Woodland Const. Co., Fifty-fourth and Chester avenue, $11,995; McCormick-Lenham, Broad and Tasker streets, Philadelphia, $13,845; plumbing and heating, Joseph Hart, 1945 North Croskey street, $1,900; eelectric, Mitchell & Co., 1337 McFerran street, Philadelphia, $415.

Paving, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Contract No. 163, repaving Broad street from Indiana avenue to Venango street. Low bidders: Union Paving Co., Thirtieth and Locust streets, Philadelphia, $114,350.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Owners taking bids due October 14th at noon. Certified check, 5 per cent. No. 838, furnish and lay 36-inch, 30-inch, 24-inch and smaller pipe lines. No. 839, furnish and install ash crane, Queen Lane Pumping Station. No. 840, furnish and install ash crane, Lardner's Point Pumping Station. No. 841, furnish and deliver filter sand and gravel. No. 842, furnish and deliver binders, printed forms, etc. No. 845, furnish and deliver single nozzle fire hydrants. No. 846, spare gear for Belmont Pumping Station. No. 847, coal conveyor belts, Lardner's Point Pumping Station.

Miscellaneous Paving Work, Phila. Low Bidders. Owner, Dept. of Public Work, Bureau of Highways, Phila. Front and Erie Sts. (Schedule A). Easter Asphalt Co., Penna. Bldg., Phila., I10,095.38. York Road, Union Paving Co., 30th below Locust St., $38,167.25. Vine St., 19th to 20th Sts., Union Paving Co., 30th and Locust Sts., Phila., $11,674.85. 33rd St., Girard to Diamon, Barber Asphalt Co., 1600 Arch St., Phila., $105,942.52. Dock St., Delaware Ave. to 3rd St., Lazzola and Parano, 730 S. 7th St., Phila., $110,731.75. Schedule B—Dauphin St., Union Paving Co., 30th below Locust St., $25,036.60. Greenwood Ave., Union Paving Co., 30th below Locust St., $3,024.14. 20th St., Union Paving Co., 30th below Locust St., $10,186.64. Schedule C—Arthur St., M. Y. Neely, Inc., Wakeling & Oxford Road, $8,860.50, $8,305.50. Barclow St,. to Philmont Ave., Union Paving Co., 30th

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below Locust St., $27,982.75, $25,767.75. Bingham St. to Walter St., Wilson Martin, 2nd and Jefferson St., $25,578.58, $24,486.50. L. Ridgeway St. to F. Halsted St., Wilson Martin, Inc., 2nd and Jefferson Sts., $11,940.-35, $12,431.55. Forest Ave to Williams Ave., Union Paving Co., 30th below Locust St., $13,455. Fowler St. to Flamingo St., United Paving Co., 30th below Locust, $2.726.50, $2,241.90. Hellerman St. to VanKirk St., M. Y. Neely, Inc., Wakeling and Oxford Sts., $5,452.80, $5,251.04. Knorr St. to Tyson, Wilson Martin, Inc., 2nd and Jefferson Sts., $17,-398.77, $16,652.61. Roxborough to Magdalene St., United Paving Co., Real Estate Trust Bldg., $4,387.50, $4,036.50. Stanwood St. to Leon St., John Devlin, Hancock and Thompson Sts., 2,897.90, $2,801.70. Rowland St. to R. Lawn St., Wilson Martin, Inc., 2nd and Jefferson Sts., $27,914.40, $26,680.20. Furnish and deliver sand for asphalt paving mixtures, Union Paving Co., 30th below Locust St., Phila., $3,125.00.

Toilet and Locker Building, Hunting Park, York Road, Nicetown and Wingohocking Sts., Philadelphia, $50,000. Owner, Fairmount Park Commissioner, A. Corson, Engr., Phila. Brick, limestone, 1 story. Plans in progress. Work contemplated.

Residence, Chelten Avenue, near Seventh Street, Philadelphia. Architect, Thalheimer and Weitz, 10 South Eighteenth Street, Philadelhia. Owner, J. M. Zerby, care of Zerby & Halloway, 4717 North Broad Street, Philadelphia. Stone, 2½ stories and basement, 55x42 feet, hot water heat, electric light, tile work, metal lath, ornamental iron work, slate roof, oak and pine floors, plumbing, metal weatherstrip, waterproofing, septic tanks, linoleum floors, flagstone, treadlite or linotile floors. Owner taking bids due Oct. 18th.

Hospital, Northeast corner Twenty-third and Chestnut Streets, Philadelphia . Architect, Brunton Studio Inc., 801 Kentucky Ave., Atlantic City, N. J. Owner, Central Hospital, Philadelphia, Dr. E. Underhill, Building Committee, on premises. Brick, 3 stories. Plans in progress. Architect will be ready for bids in one month.

Post Office Building, Mascher Street, above Tabor Road, Philadelphia. Architect, Peter F. Getz, Victory uBilding, Philadelphia. Owner, name withheld. Lessee, U. S. Government, Washington, D. C. Brick, 1 story and basement, vapor heat, electric light, marble work, slag roof, pine and terrazoo floors. Architect taking general bids due as soon as possible.

Bank Building, Ogontz and Limekiln Pike, Philadelphia. Architect, H. Y. Brugger, Public Ledger Building, Philadelphia. Owner, Olney Bank and Trust Co., on premises. Brick, limestone, 1 story and basement, 60x81 feet, irregular slag roof, composition floors, electric light. Architect taking bids due Oct. 18th.

Residences (3), Bangor, Horrocks and Discher Streets, Philadelphia, $19,500. Architect, private plans. Owners, Smith, McGowan and Donnelly, 813 E. Allegheny Ave. Brick, 2 stories, 17x28 feet, 17x45 feet and 16x28 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Garage, 1247 S. Thirty-third Street, Philadelphia, $17,000. Architect, private plans. Owner, Generro Durante, 1252 S. Thirty-third street, Philadelphia. Brick, 2 stories, 40x40 feet, slag roof, cement floors, electric light. Permit issued.

Garage, 750-58 Clarion and Clymer Sts., Philadelphia. Architect, private plans. Owner, Garrity Bros., 750 Clarion St., Philadelphia. Brick, 1 story, 42x315 feet, slag roof, cement floors, electric light. Permit issued.

Residences (2), South side Botanic Ave., North of Seventy-ninth Street, Philadelphia, $4,000 each. Architect, private plans. Owner M. Bishki, 7900 Botanic Avenue, Philadelphia. Brick, 2 stories, 16x20 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Convent (add.), 5433 Vine Street, Philadelphia, $8,000. Architect, Geo. I. Lovatt, 223 S. Sydenham St., Philadelphia. Owners, Our Lady of Victory Church, Rev. F. M. Carr, on premises. Brick, steel, 28x30 feet, electric light, tile work, ornamental iron, demolition, painting glazing plumbing concrete (plain and reinforced), metal doors, carpentry, mill work, pine floors, tile work. stairwork. Contract awarded to Knox-Landers, 1132 Vine Street, Philadelphia.

Display and Office Building, 1301-07 Locust St., Phila. Architect, Ralph Bencker, Bellevue Court Bldg., Phila. Owner, Joseph Bernhard, 13th and Walnut St., Phila. Limestone, cast tsone, brick and steel, s troies and basement, 115x42 feet, slag roof, cement floors, elevators, ornamental iron work, tin clad doors, metal lath, electric light (plumbing, heating reserved), store front, granite, bronze steel joist, metal partitions. Contract awarded E. H. Keefeer & Son, 1321 Rodman St., Phila.

Lodge Building (alts.), 707 N. Broad St., Phila. Architect, Frank V. Nickels, 15 S. 21st St., Phila. Owner, Bricklayers' Union, on premises. Carpentry, millwork, rolled steel skylights, slag roof, toilet fixtures, brickwork, reinforced concrete, steel, reinforced steel metal lath, plastering, painting, glazing, electric work, plumbing. Contract awarded Wm. Langhorne, 10 S. 18th St., Phila.

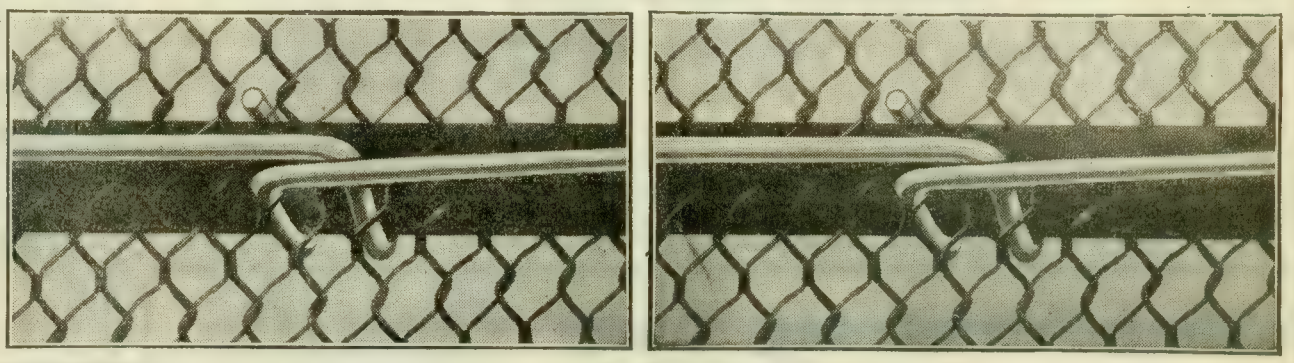
Banking Building (alts. and add.), 1428 Walnut St., Phila. Architect, Arthur J. Brookie, 254 S. 15th St., Phila. Owner, Charles D. Barney & Co., on premises. Brick, reinforced concrete, uct stone, limestone, steel, 2 stories and basement, 47x30 feet, slag roof, oak and cement floors, vapor heat, electric light, metal lath, tile and marble work, rolled steel sash, copper skylights, kalamein doors, ornamental iron work, shoring, painting and glazing, plumbing, shoring, demolition stone work, bronze work, rubber and linoleum floors. Contract awarded J. Sims Wilson, 1125 Brown St., Phila.

Manufatcuring Building, Aramingo and Tioga Sts., Phila. Architect, private plans. Owner, Imperial Type Metal Co., Mr. Wilson Yerger, Pres., 1226 N. Howard St., Phila. Brick, steel, 1 story and basement, slag roof, cement floors. Contract awarded without competition to Roberts and Roller, 1700 Walnut St. Plans in progress.

Building No. 5 (add.), 20th and Indiana Ave., Phila. Architect, C. B. Comstock, 110 W. 49th St., New York. Owner, Wm. Freihofer & Son, on premises. Brick, steel, 2 tories and basement, irregular in size, slag roof, cement floors, steamheat, electric light, rolled steel sash. Contract awarded Wm. Steele & Son, 219 N. Broad St., Phila.

Residences (2), 5810-12 Torresdale Avenue, Phila., $10,500. Architect, private plans. Owner, Mark Harper & Sons, 7992 W. Oxford Ave., Phila. Brick, 2 stories, 16x50

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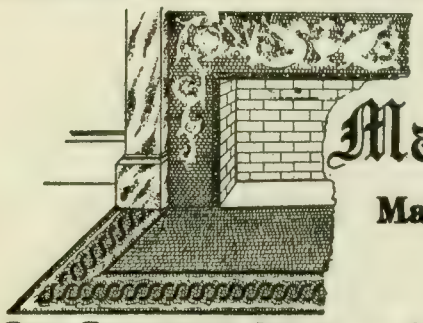
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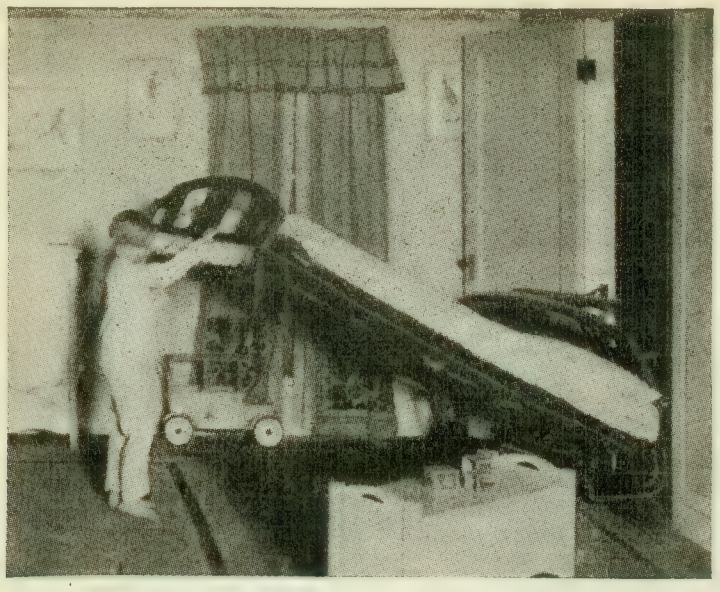
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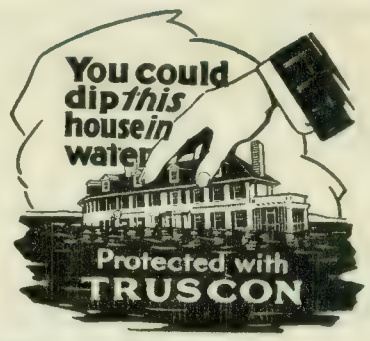
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feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Jos. W. Bradley, 4516 Paul St., Phila.

Warehouse, (alts.) ,5626-32 Summer St., Phila., $19,680. Owners, Freihofer Baking Co., 20th and Indiana Ave., Phila. General alterations. Contract awarded to P. Haibach Cont. Co., 1261 N. 26th St.

Residences (4), E. side Tabor Road, S. of Shelmire Street, $16,000. Architect, private plans. Owner, Lena Perlman, 1225 Cottman St., Phila. Brick, 2 stories, 14x40 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Henry Perlman, 1225 Cottman St., Phila.

Store (alts.), 503-05 Market St., Phila., $10,000. Architect, private plans. Owner, D. P. Harris, 99 Chambers St., New York. General alterations. Contract awarded to A. Raymond Raff Co., 1635 Thompson St.

Residence, E. Side Whittaker St., N. of Cottman St., $6,800. Architect, private plans. Owner, W. T. Blair, Whittaker and Aldine Sts., Phila. Brick, 2 stories, 20x48 feet, hardwood and pine floors, hot water heat, electric light. Contrate awarded to T. E. Lampman, 7334 Bingham St., Phila.

Residence (add. and alts.), N. W. Cor. 35th and Wharton Sts., $4,600. Architect, private plans. Owner, Joseph Swedis, on premises. Brick, 1 story, 8x15 feet, general alterations. Contract awarded to Jos. A. Phipps, 1337 Kerlin St., Phila.

Garage, E. Side 4th St., S. of Wyoming Ave., Phila., $3,000. Architect, private plans. Owners, P. & A. J. Ellis, 4th and Wyoming Ave., Phila. Brick, 1 story, 36x52 feet, slag roof, cement floors, electric work. Contract awarded to Frank H. Fitt, 5753 N. 5th St., Phila.

Store and Residence (alts.), 5112 Haverford Ave., $3,000. Architect, private plans. Owner, Joseph Corp., 5112 Haverford Ave., Phila. Contract awarded to Penna. Building & Const. Co., Commonwealth Bldg., Phila.

Residence, E. Side 3rd St., S. of 66th Ave., Phila., $8,000. Architect, private plans. Owner, John Gunderman, 1646 N. 3rd St., Phila. Brick, 2 stories, 25x29 feet; 12x8 feet, hardwood and pine floors, hot water heat, eletcri clight. Contract awarded to Harry Goepel, 5619 N. 3rd St., Phila.

Open Shed, S. Side Luzerne St., W. of F St., Phila., $6,000. Architect, private plans. Owners, Gibson & Walker, F and Luzerne Sts., Phila. Frame, 1 story, 75x312 feet. Contract awarded to Geo. H. Evans, Inc., 1416 Vine St., Phila.

Stable (alts.), 2105 Chancellor St., Phila., $2,500. Arhitect, private plans. Owner, Dr. Wm. F. Paul, 1303 S. 22nd St., Phila. General alterations. Contract awarded to Wm. F. Newbery Co., Otis Bldg., Phila.

Rooming House (alts.), 6950 Germantown Ave., Phila., $5,000. Owners, Lutheran Orphans' Home, on premises. General alterations. Contract awarded to John Schnabel, Inc., Abbott Bldg., Phila.

Greenhouse, S. Side Sedgley Ave., W. of 28th St., Phila., $3,000. Architect, private plans. Owner, Julius Wolf, Jr., 2800 Sedgley Ave., Phila. Iron and wood, 1 story, 25x50 feet. Contract awarded to Lord & Burnham Co., Land Title Bldg., Phila.

Residence (alts.), 2230 Tioga St., Phila., $3,000. Arhictect, private plans. Owner, Lola Tillman, Fox Bldg., Phila. General alterations. Contract awarded to John MacFarlane, Fox Bldg., Phila.

Garage (add.), 6328 Paschall Ave., Phila., $16,000. Architect, private plans. Owner, Geo. Griffin, 6328 Paschall Ave., Phila. Contract awarded to Harry G. Walters, 412 N. 40th St., Phila.

Dairy (alts.), 2013 N. Mascher St., Phila., $3,000. Owners, Peter Hering Co., Inc., on premises. General alterations. Contract awarded to Farrell-Roth Co., 123 S. 21st St., Phila.

Greenhouse, S. W. Cor. Chestnut and Towanda Sts., Phila., $3,000. Owner, J. S. Disston, Esq., Chestnut Ave. and Towanda St., Phila. Concrete, steel, 1 story, 20x40 feet. Contract awarded to John Morrow, 8624 Germantown Ave., Phila.

Residences (10), E. Side Howard St., S. of Nedro Ave., $40,000. Architect, private plans. Owner, N. W. Goodman, 410 Forrest Ave., Phila. Brick, 2 stories, 15x38 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to Thos. G. Birmingham, 733 N. 40th St., Phila.

Storage Building, Delaware Ave., N. of Shunk St., Phila., $20,000. Architect, private plans. Owners, Penna. Salt Co., Delaware and Oregon Aves., Phila. Brick, 1 story, 120x60 feet. Contract awarded to David Lutz Co., 23rd and Chestnut Sts., Phila.

Garage, 1938-42 N. 12th St., Phila., $20,000. Architect, private plans. Owners, Bittle & Schandle, 1902 N. 12th St., Phila. Brick, 2 stories, 66x88 feet, slag roof, ecment floors, eletcric work. Contract awarded to H. D. Rose, 1428 Nedro Ave., Phila.

Apartment House (alts.), 2131 Pine St., Phila., $4,500. Architect, private plans. Owner, A. J. Schroder, 331 S. 22nd St., Phila. General alterations. Contract awarded to J. G. Patterson, 2114 Lombard St., Phila.

Garage, (alts.), 414-16 Wood St., Phila., $2,000. Architect, private plans. Owners, Ausustinian Fathers, 4th St. below Vine, Vine. General alterations. Contract awarded to McCloskey Co., 1620 Thompson St., Phila.

Pennsylvania Construction News

Residence, Ardsley, near Glenside, Pa. Architect, T. Frank Miller, 1012 Walnut St., Phila. Owner, Edmund Glaser, care of architect. Hollow tile and stucco, 2½ stories. Sketches in progress.

Residence, Noble Vista, Pa. Arhitceet, Norman Hulme, 1524 Chestnut St., Phila. Owner, R. M. Guckes, 703 Chelten Ave., Phila. Stone, 2½ stories, slate roof, hardwood floors. Plans in progress.

Bank and Residence, Reamstown, Pa. Architect, H. G. Mohn, Mohnton, Pa. Owners, Reamstown Exchange Bank, A. K. Heintzinger, Reamstown, Pa. Brick, terra cotta, 2 stories, 48x52 feet, asbestos roof, hardwood floors, electric light, tile work, vault, bronze. Plans in progress.

Church (adds. and alts.), Danville, Pa. Architects, Ritcher & Eiler, 141 N. 5th St., Reading, Pa. Owners, Trinity Lutheran Church, Rev. E. R. Leisey, Danville. Preliminary plans in progress.

Administration Offices and Apartments, 6th and Penn Sts., Reading. Architects, Ritcher & Eiler, 147 N. 5th St., Reading, Pa. Owners, Pomeroy's, Inc., 600 Penn St., Reading, Pa.

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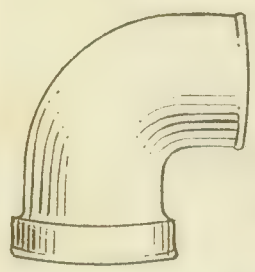
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Residence, Reading, Pa. Architect, H. R. Heckman, Baer Bldg., Reading, Pa. Owner, name withheld. Brick, 2½ stories, 39x46 feet, slate roof, hardwood floors, hot water or vapor heat, electric light, tile work. Plans in progress.

Factory, Littlestown, Pa. Architect, private plans. Owners, Newark Shoe Co., Baltimore, Md. Brick, steel, 1 story, 400x50 feet, slag roof, concrete and wood floors, electric light, steel sash. Plans in progress. Owners will take sub-bids.

Church and Sunday School(adds. and alts.), Oley, Pa. Architect, Harry Maurer, 234 N. 5th St., Reading, Pa. Owners, Friedens Reformed Church, Rev. Schweitzer, Oley, Pa. Brick, 1 story and basement, 50x80 feet, oak floors, steam heat, electric light, leaded glass. Architect will be ready for bids this week.

Apartment and Store (adds. and alts.), N. 10th St., Reading, Pa. Architect, F. A. Muhlenberg, Ganster Bldg., Reading, Pa. Owner, Dr. Boyer, care of architect. Brick, 3stories, 80x24 feet, felt roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will be ready for bids this week.

Hall, West Reading, Pa. Architect, H. G. Mohn, Church and Walnut Sts., Mohnton, Pa. Owners, Borought of West Reading, B. B. Heilman, Sec'y, W. Reading. Brick, 1 story, 30x50 feet ,slag roof, wood floors, electric light. Owners taking sub-bids.

Hospital (alts. and adds.), Sellersville, Pa., $150,000. Architects, The Ballinger Co., 12th and Chestnut Sts., Phila. Owners, Grandview Hospital, care of Wm. A. Derstein, Pres., Sellersville, Pa. Brick, 2 stories and basement. Plans in progress.

Y. M. C. A. Building, Lancaster, Pa. Architect, C. E. Urban, Woolworth Bldg., Lancaster, Pa. Owners, Y. M. C. A., care of architect. Fireproof, 4 stories, 69x60 feet, built-up roof, hardwood floors, hollow tile, roof ventilators, ornamental iron, iron stairs, tile and marble, metal lath, electric light. Architect taking bids.

Store (2) Apartment and Garage, Ardmore, Pa. Architect, Walter K. Durham, 312 S. Broad St., Phila. Owner, A. Wesley Long, Ardmore, Pa. Brick, building block and California stucco, 2 stories, 40x180 feet, slate slag and built-up roof, cement and hardwood floors, hot water heat, eelctric light, tile and marble work, metal bulks, plate glass. W. L. Lownes, Gladwyne, Pa., will build.

Shop (adds.), Reading, Pa. Architect, H. R. Heckman, Baer Bldg., Reading, Pa. Owners, Wetherhed Wagon & Body Works, 42 Poplar St., Reading, Pa. Brick, steel, cinder block, 2 stories and basement, 30x54, composition roof, maple floors, heating extension, electric light, steel sash. Owners taking bids due as soon as possible.

Church, East Stroudsburg, Pa. Architects, Ritcher & Eiler, 147 N. 5th St., Reading, Pa. Owners, Grace Lutheran Church, Rev. Kistler, E. Stroudsburg. Asso. Architect, E. Rinker, E. Stroudsburg, Pa. Stone, steel, 1 story and basement, 50x80 feet, slate roof, hardwood floors, vapor heat, electric light. E. Rinker, E. Stroudsburg, Pa., taking bids.

Hospital Building, Pittsburgh, Pa. Architects, Schmidt, Garden & Erickson, 104 S. Michigan Ave., Chicago, Ill. Owners, Montefiore Hospital, Pittsburgh, Pa. Architects taking bids due Oct. 14th.

Residence and Garage, Merion Golf Manor, Merion, Pa. Architect, John L. Coneys, Drexel Bldg., Phila. Owner, Clarence E. Kiemmerle, 6145 Carpenter St., Phila. Stone, cut stone, stucco, 2½ stories and basement, 71x21 feet, variegated slate roof, oal, pine and cement floors, painting and glazing, plumbing, metal weatherstrip ,electric light, metal lath, tile work, ornamental iron work, cinder concrete work. Architect taking bids due as soon as possible.

Residence, No. 72 Villa Nova Pa. Architect, Frank Seeburger, 1524 Chestnut Street, Phila. Owner, name withheld. Stone, 2½ stories and basement, 63x20, wing, 17x51 feet (heating, electric and plumbing reserved), slate roof, oak, pine and cement floors, metal lath, tile work, ornamental iron work. Architect taking bids due October 16th.

Construction Terra Cotta Sewer, Chester, Pa., Engineer, City Engineer, Chester, Pa. Owner, City of Chester, G. J. Hunter, Supt. of Streets and Improvements, Chester, Pa. Owner taking bids due Oct. 15th, 2 P. M. Surety bond, 50%. Certified check, $500. Deposit, $2.00. Approximate 2,600 feet 8-inch terra cotta sewer, 1,300 feet 10 inch; 870 feet 12-inch; 940 feet 18-inch; 505 feet 24-inch.

Intercepting Sewer Section No. 1 Construction Work, Chester, Pa. Engineer, City Engineer, Consulting Engingeers, Barker & Wheeler, 56 State St., Albany, N. J. Owner, City of Chester, G. J. Hunter, Chester, Pa. Owner taking bids due Oct. 15th, 2 P. M. Deposit, $10.00. Refunded. Certified check, $2,500. Approximately 345 feet 15-inch vit pipe in place, 1440 feet 18-inch vit pipe in place; 120 feet 48-inchin C. I. pipe in place; 2520 feet 48-inch pre cast cono. pipe in place; 2510 feet 54-inch pre cast concrete pipe; 25 manholes, 2 regulator chambers, 1 stilling chamber, 1 connecting chamber, etc.

Apartment House, Store and Garage, Lansdowne, Pa. Architect, Clarence Brazer, Crozer Building, Chester, Pa. Owner, Dr. W. N. Rhoads, Lansdowne, Pa. Owners, F. W. Woolworth Co., Wilkes-Barre, Pa. Brick, fireproof, 4 stories, 100x150 feet, slag roof, hardwood floors, elevators incinerator, ornamental iron, iron stairs, tile work, electric light, steam heat or oil burner. Architect ready for bids.

Residence, Swarthmore, Pa. Architct, John L. Coneys, Drexel Hill, Philadelphia. Owner, Otto Kraus, Jr., Liberty Building, Philadelphia. Stone, cut stone, brick, 2½ stories and basement, 46x30 feet, slate roof, oak, pine and cement floors, ornamental iron work, tile work, metal lath, electric light. Architect taking new bids due as soon as possible.

Pennsylvania Contracts Awarded

Residence, Williamsport, Pa. Architects, McIlvaine & Roberts, Otis Bldg., Phila. Owner, Geo. W. Crook, Williamsport, Pa. Stone, 2½ stories, 76x35 feet 6 inches, shingle roof, waterprofing, tile and flagstone, terra cotta, reinforced concrete work, asphalt, pine floors, ornamental iron, metal lath, vapor heat. Contract awarded J. V. Bennett & Co., 307 W. 3rd St., Williamsport.

Office Building and Garage, Lemoyne, Pa. Architect, C. J. Lappley, Parkside Bldg., Harrisburg, Pa. Owners, Supreme Oil Co., Lemoyne, Pa. Brick, steel, 1 story, 60x60, 100x100 feet, slag and slate roof, hardwood and concrete floors, roof ventilators, fire doors, steel sash, steel skylight, vapor heat or oil burner, electric light. Contract awarded to A. W. Hertzler, Camp Hill, Pa.

Office (add .and alts.), Reading, Pa. Archi-

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tect, F. A. Muhlenberg, Ganster Bldg., Reading, Pa. Owners, Carpenter Steel Co., River Road and Exeter St., Reading. Brick, structural steel, concrete, 3 stories, 30x20 feet, tin roof, concrete floors, electric light, general alterations. Contract awarded to Reider & McLaughlin, Reading, Pa.

Club House (alts. and adds.), Reading, Pa. Architect, H. R. Heckman, Baer Bldg., Reading, Pa. Owners, Reading Sick and Beneficial Asociation care. of architect. Brick, 1 story, 11x56 feet, composition roof, heating extension, electric light, general alterations. Contract awarded to W. C. Fritz, 302 N. 11th St., Reading, Pa.

High School, West York, Pa. Architects, Witman & Royer, 47 E. Market St., York, Pa. Owners, West York Borough School District, West York, Pa. Brick, steel, fireproof, 2 stories and basement, 174x60 feet, composition roof, maple and composition floors, hollow tile, safety treads, roof ventilators, ornamental iron, steel sash, metal lath (heating, plumbing lecetric separate) . Contract awarded to I. Rhindollar & Son, York, Pa.

High School ,Ephrata, Pa. Architect, C. E. Urban, Woolworth Bldg., Lancaster, Pa. Owners, Ephrata School Board, J. M. Baum, Secty. Ephrata, Pa. Brick, steel, 1 story and basement, 170x150 feet, built-up roof, maple floors, hollow tile, safety treads, roof ventilators, water and dampproofing, cast stone, iron stairs, bond, fire doors, steel sash and skylights, tile work, metal lath. Contract awarded to A. L. Gerhart, Ephrata, Pa. Heating and Ventilating to American Heating & Ventilating Co., 1505 Race St., Phila. Plumbing to Musselman & Schwartz, 130 N. Christian St., Lancaster. Electric to Hentzer Electric Co., Ephrata, Pa.

Residence, Farm Buildings, Fort Washington, Pa. Architects, Mellor, Meigs & Howe, 205 S. Juniper St., Phila. Owner, Robert McLean, care of Philadelphia Bulletin, Juniper and Filbert Streets, Phila. Stone, 1½ stories, 100x25 feet. Farmer house, miscellaneous buildings, details undecided. Contract awarded without competition to H. H. Burrell & Son, 206 S. Quince St., Phila. Plans in progress.

Residence, Wynnewood, Pa. Architect, McIlvaine & Roberts, Otis Building, Philadelpria. Owner, Florence B. Scott, care of architects., Phila. Stone, cut stone, brick, 2½ stories and basement, 94x40 feet, shingle roof, oak and pine floors, cement floors, plumbing metal weatherstrip, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work, septic tank, area gratings, flagstone. Contract awarded Metzger Fisher and White, Otis Building, Philadelphia.

Service Station, Sixth and Reilly Sts., Harrisburg, Pa. Architect, private plans. Owner, Atlantic Refining Co., 260 S. Broad Street, Philadelphia. Brick, limestone, 1 story, 17x-20x19 feet x irregular, tile roof, steam heat, electric light, metal lath, cement floors, Contract awarded Metzger Fisher and White, Otis Building, Philadelphia.

Pennsylvania State Highway Work.

Schuylkill Co., R-417, A-4131, N. Manheim and Wayne Townships, Cressona Borough. One course reinforced concrete. $131,767.85. Contract awarded to David Schaentag, Inc., Saugerties, N. Y.

McKean Co., R-277, A-3962, Keating and Norwich Townships. Bituminous surface treated macadam. $188,160.63. Contract awarded to D. L. Dennis, Galeton, Pa.

Crawford Co., R-89, Sec. 4, W. Mead Townshi. One course reinforced concrete. $40,-433.54. Contract awarded to Ernest J. Bailey, Brocton, N. Y.

Clearfield Co., R-62, Spur Curwensville Boro., Pike and Penn Townships, Lumber City Borough. Bituminous surface treated macadam. $52,135.99. Contract awarded to David Schoentag, Inc., Saugerties, N. Y.

Cambria Co. R-276, A-3942 Sec. 7 Adams & Richland Townships. One course reinforced concrete. $103,157.04. Contract awarded to B. F. McKillip Hollidaysburg, Pa.

Clinton Co., R-105, Sec. 3-4, Chapman, Grugan, Bald Eagle and Allison Townships, City of Lock Haven. Grading and Drainage. Contract awarded to Wm. C. Horn Co., Athens, Pa. $647,117.75.

Washington Co., R-247, Sec. 10, A-4094, 4095, Carrall and Fallowfield Townships, N. Charleroi Boro. One course reinforced concrete. Contract awarded to Donora Const. Co., Donora, Pa., $199,628.15.

Westmoreland Co., R-120, Sec. 1a, 1b, 2a, Hempfield and N. Huntingdon Townships. One course reinforced concrete. Contract awarded to Edwards Dunn Co., Inc., Greenbur, Pa., 108,543.54.

Lebanon Co., R-140-141, A-4309, Bethel Co. One course reinforced concrete. Contract awarded to D. L. Risser, Lebanon, Pa. $139,946.09.

Lehigh Co., R-158, Spur, Upper Milford and Lower Macungie Townships, Macungie Boro. One course reinforced concrete. Contract awarded to Smith-Fenstermacher, Allentown, Pa. $45,153.78.

Pike Co., R-167, Lehman, Delaware and Dingman Townships. One course reinforced concrete, grading and drainage. Contract awarded to Rudolph and Delano, Tamaqua, Pa., $224,944.69.

New Jersey Construction News

Hotel, Ocean City, N. J., $1,250,000. Architect, Adin B. Lacey, 1012 Walnut Street, Philadelphia. Owner, Atlantic Hotel Co., T. W. White, Overbrook Golf Club, Overbrook, Philadelphia. Concrete block, steel, concrete, limestone, 4 stories, 200x300 feet, 305 rooms. Plans in progress.

Paving and Grading, Township of Haddon, N. J. Owner, Remington and Vosbury, 509 Cooper Street, Camden, N. J. Owner, Township Committee, R. Griffith, Fire Hall, Westmont, N. J. Bond, certified check 10%. Owner taking bids due Oct. 12th. 53,000 sq. ft. concrete sidewalk 13,200 lineal feet concrete cub 21,000 sq. yd. cinder road surface and necessary grading.

Hotel, Millville, N. J., $250,000. Owners, Millville Board of Trade, Dr. A. E. Slade, Chairman of Building Committee, Millville, N. J. Work contemplated.

Stores (6) Apartments (5), 34th and Federal Sts., Camden, N. J. Architect, Sol. Kaplan, 10 S. 18th St., Phila. Owner, Max Marcouse, Camden, N. J. Brick, 2 stories, 40x 100 feet, hot water heat, electric light, tile work, slag roof, hardwood floors, plate glass, metal bulks, wrought iron. Architect taking bids.

Residence and Garage, Highstown, N. J. Architect, J. O. Hunt, Hunt Bldg., Trenton, N. J. Owner, Mayor Thompson, Highstown, N. J. Stone, 2½ stories, 50x108, 40x25 feet, stonefield slate roof, oak floors, vapor heat, electric light, tile and marble work, ornamental plaster, ornamental iron. Architect ready for bids.

Residence, Sea Girt, N. J. Architects, W. W. Slack & Son, Trenton Trust Bldg., Trenton, N. J. Owner, Thomas Thropp, Sea Girt, N. J. Frame, 2½ stories, 70x30 feet, shingle roof, hardwood floors, tile work, vapor heat, electric light. Architect taking bids.

Stores and Residences (4), 3300-06 River Ave., Camden, N. J. Architect, Joseph W. Todd, Camden, N. J. Owner, Joseph Munger, 1180 Bergen Ave., Camden, N. J. Brick and block, 2 tsories, 15x58 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Grade School, Runnemede, N. J. Architects, Edwards & Green, 548 Federal St., Camden, N. J. Owners, School Board, Borough of Runnemede, J. Hausman, Pres., Runnemede, N. J. Brick, 2 stories, 60x85 feet. Plans in progress.

School, Belmar, N. J. Architect, John L. Coneys, Drexel Bldg., Phila. Owners, School Board, Forest L. Dyer, Pres., Mt. Ephraim P. O., N. J. Sketches in progress.

Apartment House, Atlantic City, N. J. Architect, D. W. B. Haining, Atlantic City,

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N. J. Owner, Samuel J. Stern, 628 Atlantic Ave., Atlantic City, N. J. Brick, 3 stories, 20x85 feet, slag roof, electric work, tile work. Owner taking bids.

Convention Hall, Georgia Ave. and Boardwalk, Atlantic City,$2,500,000. Architects, Lockwood, Greene & Co., Inc., No. 1 Pershing Square, New York. Owners, Board of Commissioners, H. Headley, City Hall, Atlantic City. Engineer, Alex. H. Nelson, Guarantee Trust Building, Atlantic City, N. J. General construction, plumbing, heating and electric separate bids. Deposit $50.00 on each set. Refunded if bid is returned. Certified check, $50,000. Owners taking bids due Nov. 4th, 3 P. M.

New Jersey Contracts Awarded

Residence (Colonial Type), Collingswood Avenue, Oaklyn, N. J. Architect, private plans. Owner, John M. Laning, 1450 S. Fifty-second street, Philadelphia. Frame and stucco, 2 stories, hot water heat, heatwood, plumbing, asphalt, shingle roof, electric light. Contract awarded W. C. Magee, West Collingswood, N. J.

Pumping Station, Gloucester, N. J., $27,-35.71. Owner, City of Gloucester, N. J. Contract awarded E. R. Moorehouse Co., Camden, N. J.

School, 8th and Jackson Sts., Camden, N. J. Architects, Davis, Dunlap & Barney, 1805 Walnut St., Phila. Owners, Board of Education, Camden, N. J. Contracts awarded: Geo. Bachman, 19 N. 30th St., Camden, N. J., $212,-930. Heat, Harry Knecht, Palmyra, N. J., $3,349. Plumbing, W. J. Newell, 2035 Arch St., Phila., $10,300. Electricity, Chas. S. Wright, Camden, N. J., $6,100.

Stores and Apartmnets (4), 3700 Federal St., Camden, N. J. Architect, Ernest M. Ergood, 320 Market St., Camden, N. J. Owner, J. J. Myers, 3700 Federal St., Camden, N. J. Brick, 3 stories, 27 feet 8 inches by 97 feet 4 inches, slag roof, hot water heat, electric light. Contract awarded to Philip Grabowski, 1208 Chase St., Camden.

Store and Factory, 1490 Haddon Avenue, Camden, N. J., $15,000. Architect, A. B. Gill, 328 Market St., Camden, N. J. Owners, Heake & Son, care of architect. Brick, steel, concrete block, 2 stories, 40x100 feet, slag roof, pine floors, roof ventilators, vapor heat, electric light. Contract awarded to Wm. G. Mummaw, 301 Morse St., Camden, N. J.

Building (alts. and adds.), S. E. Cor. 5th and Berkley Sts., Camden, N. J. Architect, private plans. Owners, Freihofer Baking Co., 514 Berkley St., Camden, N. J. Brick, 1 story, 32x51, 33x29 feet, slag roof, alterations. Contract awarded to Lewis T. West, 5th and Royden Sts., Camden, N. J.

Buildings (add.) 1201-03-05-07 Mt. Ephhaim Ave., Camden, N. J. $10,300. Architect, private plans. Owners, Stern Corp., Camden, N. J. Brick, 1 story addition, 13x26, 12x30, 12x34 and 12x37 feet, slag roof, electric light. Contract awarded to Wallace Harden, Oaklyn, N. J.

Building (add.), 1176-78 Kaighn Ave., Camden, N. J., $4,000. Architect, private plans. Owner, Sidney Sellers, 1513 Princess Ave., Camden, N. J. Block, 1 story, 8x30, 26x22 and 40x60 feet, slag roof, steel work, general alterations to building. Contract awarded to Benj. F. Harvey, 1109 Empire Ave., Camden, N. J.

Building (add. and alts.), 27th St., near P. R. R., Camden, N. J., $3,000. Architect, private plans. Owners, Bell & Evans, Pensauken, N. J. Block, 1 story, 14x28, 10x12 feet, galvanized iron and concrete slab. Contract awarded to Herman Dietrich, Haddonfield, N. J.

Building(alts.), Point and Erie Sts., Camden, N. J., $2,000. Architect, private plans. Owners, McNeely & Co., 72 Erie St., Camden, N. J. General alterations, new walls. Contract awarded to Geo. C. Prince, 212 N. 38th St., Camden, N. J.

Highway Work, New Jersey. Owners, State Hightway Commisison, A. Lee Grover, Sec'y, Broad Street Bank Bldg., Trenton, N. J. Route 4, Sec. 7-B, Mullica River Section, $40,-648.10. Contract awarded to Wallace, Tozon & Wall, Millville, N. J. Route 16, Sec. 5-B, S. Bridge St., Somerville, $32,175.60. Contract awarded to Graham Van Keeren, Jersey City, N. J. Routes 2, 3 and 6, extension to State Highway to the Delaware River Bridge, $248,-423.13. Contract awarded to Union Paving Co., 30th and Locust Sts., Phila.

Miscellaneous Construction News

Bath House and (17) Stores, Rehoboth, Del. Archritect, R. C. Tindall, 914 Orange St., Wilmington, Del. Owner, name withheld. Brick, frame, 1 story, 100x180 feet, composition roof, pine floors, electric light. Sketches in progress.

Residence, Wilmington, Del. Architect, E. C. May, DuPont Bldg., Wilmington, Del. Owner, name withheld. Brick, 2 stories, 22x 60 feet, 2 wings, slate roof, hardwood floors, hot water heat, electric light, tile work. Arch-

Residences (2), Wilmington, Del. Architect, R. C. Tindall, 814 Orange St., Wilmington, Del. Owner, Anthony Angelo, Wilmington, Del. Brick, 2 stories, 20x35 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Owner will take sub-bids.

Garage, Race St., Wilmington, Del. Architect, R. C. Tindall, 914 Orange St., Wilmington, Del. Owner, Frank Sterlett, care of architect. Stone, steel, 1 story 60x100, asbestos roof, concrete floors, roof ventilators, water and dampprofiing, skylights, steel sash, steam heat, electric light. Architect taking bids due as soon as posisble.

Club House, Clayton, Del. Architect, R. C. Tindall, 914 Orange St., Wilmington, Del. Owners, Worth Steel Co., Claymont, Del. Brick, steel, stone, frame, 2 stories, 60x100 feet, shingle roof, pine and maple floors, tile and terrazzo work, steam heat, electric light. Architect taking bids due as soon as possible.

Laundry, Garage and Central Heating Plant, Frederick, Md. Architect, J. B. Hamme, 31 W. Market St., York, Pa. Owners, Hood College, Dr. Jos. H. Apple, Frederick, Md. Fireproof. Preliminary plans in progress.

Academy Building and Convent, Newburgh, Orange County, New York. Architect, Emil J. Perot, 1211 Arch Street, Philadelphia. Owner, Mt. St. Mary's on the Hudson, care of Mother Blanche, Newburgh. Steel, steel-brick, concrete. Ready for bids in a month.

Residence, Bar Harbor, Maine. Architect, Magaziner Eberhard and Harris, 603 Chestnut St., Philadelphia. Owner, E. T. Stotesbury, Chestnut Hill, Pa. Frame, 2½ stories and basement, wing 26x18 feet, shingle roof, oak and pine floors, tile work, ornamental iron work. Architect taking bids due Oct. 18th.

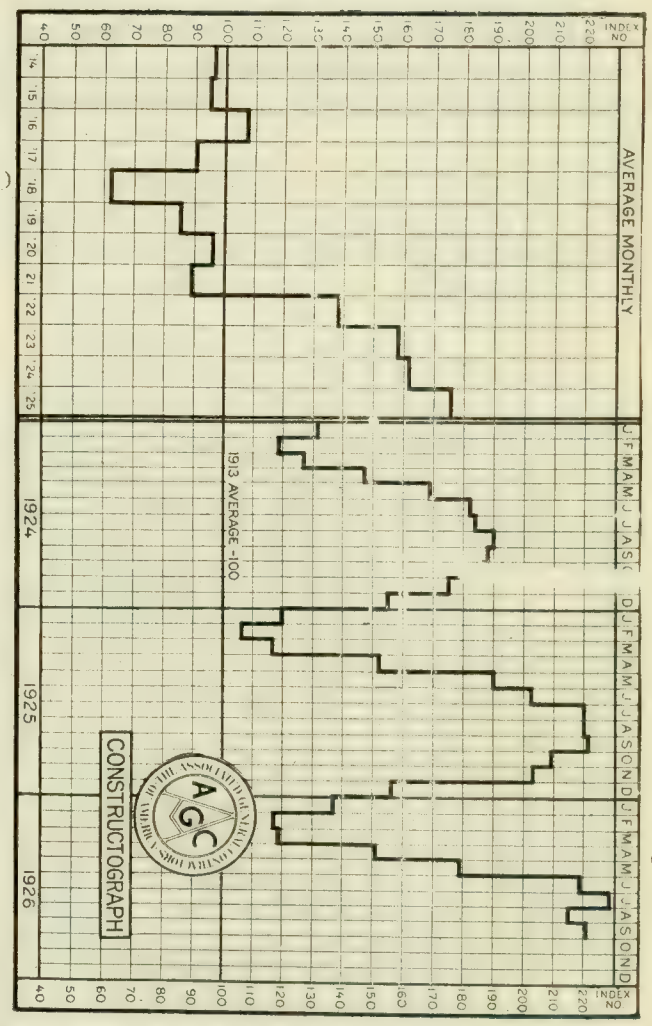
Hughes-Foulkrod Company, Builders, formerly of Commonwealth Building, Philadelphia, have moved their executive offices and accounting department to 817 Schaff Building, Fifteenth and Race Streets, Philadelphia.

Construction operations staged a "come-back" in September, after having shown a freakish decline in volume during August. A steady increase last month brought the total amount of work for the month up to a level with the highest point reached in any month during the record-breaking year of 1925, according to statistics compiled by the Associated General Contractors of America.

As a result of the speeding up of operations during September, the amount of building carried on during the first nine months of this year reached a volume 3 per cent. greater than the total recorded for the corresponding period of 1925. This fact is being held as especially significant because all previous records for construction activities in the United States were broken last year.

The September volume is registered at the index number 221 on a scale which has as its basis the average for 1913. This indicates a gain of six points over the August figure.

Volume of Construction



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In only one other month on record has a greater amount of work been handled. That was in July of this year, when operations spurted to set a mark of 228.

The ability of operations this year to hold their own with the vast amount of activities that featured 1925 is traceable mainly to the abnormal spurt in July and to the comparatively small reactive drop that followed. As matters stand, the heavy decline which some students of the situation felt might materialize following the high peak reached in mid-summer has failed to put in its appearance.

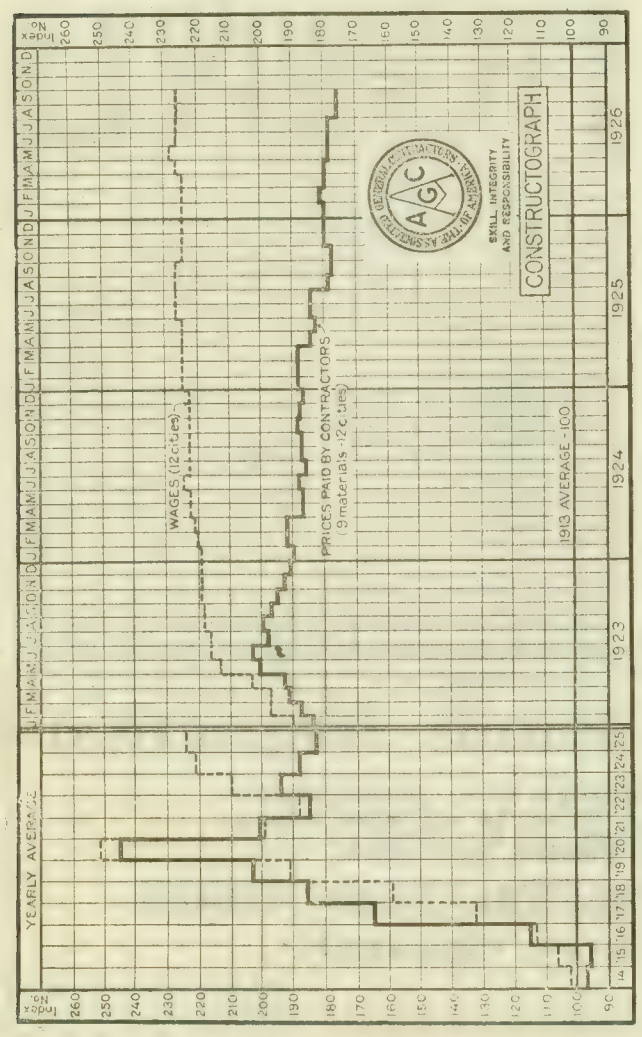
Construction costs are showing little inclination to change. During September they remained on the level they held throughout the previous month, according to statistics compiled by the Associated General Contractors of America. By maintaining this position, they continued for the second month to be on the lowest plane registered since March, 1923.

There has been only one change in the level of costs since June, and that occurred when reductions in prices of materials purchased by contractors caused the August figures to show a small decline from the July position.

During September no change was noted in either the wages paid in the construction trades throughout the country as a whole nor in the prices of building materials.

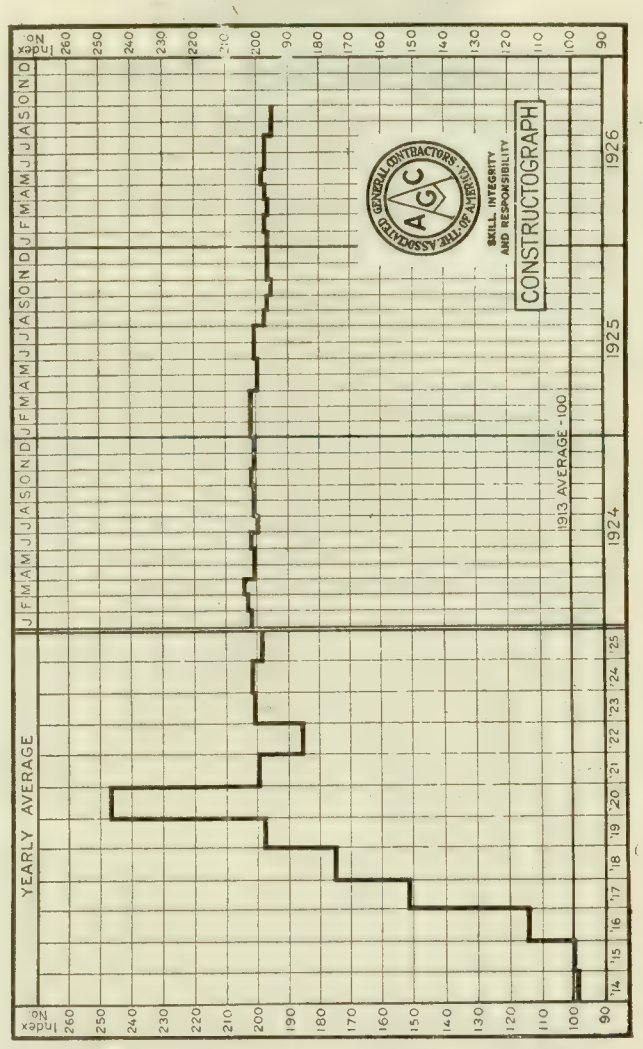
In only one month during the past five years have the average prices for building materials paid by general contractors been lower than they were last month.

Wages and Material Prices



Wages in the building trades held fast to the level which they assumed in June after dropping slightly from the May figure, which was the highest recorded for any month during the past five years.

The September index number for construction costs in general, based on the 1913 average, was 196. The corresponding index number for average prices of materials was 176, while the figure for wages for 226. Thus the total costs are shown to be following a line virtually mid-way between the trend of wages and the trend of material prices. This has been the tendency since early in 1923.



The Fifth Annual Convention of the American Construction Council, Franklin D. Roosevelt, President, will be held at the Hotel Cleveland, Cleveland, Ohio, on November 8th, 9th and 10th, Dwight L. Hoopingarner, the Council's executive, announced recently.

Under the auspices of the Council at this time will be a series of conferences dealing with the fundamental relations of the construction industry to the public on such vital subjects as the permanency of building construction in relation to hazards of life and investment; public and private plans for housing financing; methods of certifying building materials; good workmanship; and town and city planning and city building in relation to city growth, city values and community standards. These and other topics having to do with the general problem of better building, a subject which the American Construction Council has been bringing vigorously to the attention of the American public nationally for several years, will constitute the key-note of these conferences.

Other topics of national importance, as for example those having to do with practical methods of reducing construction peaks and depressions not only in relation to the construction industry itself but also their effects and counter effects upon transportation and the allied producing industries of the nation as well as the consuming public, will receive attention.

Speakers of national prominence will address the gatherings which will be conducted as a common conference table or forum open to the public.

The Council's officers are: President, Franklin D. Roosevelt; Vice President, Harry A. Wheeler, Pres., Union Trust Co., of Chicago; George A. Harwood, Vice-Pres., N. Y. Central Railroad, and D. Knickerbacker Boyd, Architect; Treasurer, Wright D. Goss, Chairman, Empire Brick and Supply Co.; Dwight L. Hoopingarner, Executive.

ANALYSIS OF COST RECORDS IN CONSTRUCTION

Neglecting to Analyse the Plans and Specifications Carefully Has Caused Many Contractors and Builders to Sell

By E. W. ROBINSON, *Civil Engineer, McKenzie Construction Company, San Antonio, Texas**

It is only within recent generations that the matter of cost in regard to the construction of public and private buildings has been given much consideration. In ancient and medieval times when it was decided to erect a pyramid, an aqueduct or a cathedral, a man or a group of men who were competent in this work were secured and given charge. The engineer or architect was also the constructor, and while they usually built well, so far as serving the purpose for which the structure was intended, it is interesting to note that the only records of cost that history gives us show that it took so many thousands of men so many hundreds of years to accomplish their object.

The same conditions prevail in modern times during periods of war or great disaster. During the late war we witnessed large and important projects put through with no idea of money cost prevailing; and in matters of life or death, either personal or national, it is right and proper that cost should not be a determining factor.

It was not so many years ago that engineering was defined as "the art of

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*A paper read before a meeting of the Texas Section of the American Society of Civil Engineers at Houston, and published in the minutes of that meeting.

directing the great sources of power in nature for the use and convenience of man." Since the promulgation of this generally accepted definition of engineering, the idea of economy or conservation of the resources of Nature, has entered into the activities of our complex civilization, and now the idea of cost of any proposed project is second only to utility of design.

On all projects financed by private capital the cost must be kept down to such a point that the estimated returns from the use of the structure will at least pay interest on the amount of money expended. On public work and where aesthetics play an important part, the matter of cost is of paramount importance, even though the dividends or returns on the investment are not considered.

The engineer should be familiar with the economical features of construction in his particular line; in fact he must be to succeed in every sense of the word. In the first place he must estimate the cost of a proposed piece of work, and from his estimate of cost the necessary funds to pay for the construction must be secured by the owner, either through bond or stock issues, or otherwise. Then the project must be designed so it will serve its intended purpose and yet be built for the amount of money provided.

The term "cost" as applied to itself is relative and when taken without reference to the context conveys little meaning. For instance, the sum of $10 may be the cost of a pair of shoes to the buyer of the shoes, but $10 represents another cost plus a profit to the seller. The cost to the owner of a structure represents the constructor's cost plus a profit, provided of course that the constructor used good judgment and had good luck.

However, for practical purposes the term "cost" is plain and means the cost of an object to the person addressed. In this sense costs, actual costs, are definite facts, and no amount of accounting can change the facts, though it is frequently true, especially on public work done by force account, that bookkeeping is used to conceal rather than reveal the true costs. This is borne out by laws recently passed in several states which make it compulsory that the accounting on such public work show the true cost, and wherever this has been done, it has been shown in most instances that the work can be done cheaper by contract than by force account.

To closely estimate the probable cost of a proposed project requires first of all good judgment and an analytical mind. Experience in the same or similar lines is a great help in developing good judgment, especially in estimating labor costs. The cost of materials entering into a structure can usually be determined with a reasonable degree of accuracy, for usually this cost is but another person's selling price. The object to be attained by the estimator in regard to cost of materials is to find the cheapest available material that will meet the requirements of the plans and specifications of the engineer or architect, and the usual procedure is for the estimator to take data gathered from his own experience, or from the records of others, and by a logical process of reasoning determine to his own satisfaction what the probable cost of the proposed work will be. The greatest chance for errors in this process is when the estimator fails to take into consideration all of the many different conditions which are always present and which tend to make no two jobs alike in every particular. This is especially true with reference to those things that affect the cost of the work directly, and also when the data used was gathered and recorded by some person other than the one making the comparison. This accounts for the trouble an inexperienced estimator often gets into when he tries to apply data obtained from any of the standard handbooks of cost data to an estimate of future work.

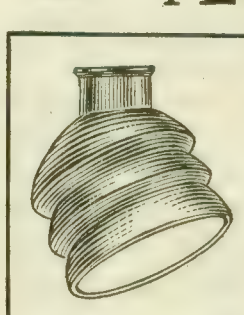
The systems used by constructors in preparing an estimate of cost are perhaps as numerous as there are constructors. As in every line of business it is necessary that the system used serve fully the purpose for which it is intended, and yet eliminate as much labor and expense as possible. The system used by me has been developed through a period of ten years of use and is now established procedure. Some of the fundamental principles and operations of this work are as follows:

The first thing to be done, of course, is to study the plans and specifications, take off a complete itemized list of quantities of all work to be done, and make extracts from the specifications on all matters of importance. This is done on sheets ruled for the purpose and of a distinctive color, and these sheets are filed as a permanent record. Sufficient notations should be made on the quantity sheets as the items are listed so that anyone can at any time check the take-off or extensions pertaining to any single or particular part of the structure.

On all important jobs there should be two, and sometimes three, independent estimates made of the quantities of work to be done. The totals of each class of work are then transferred from the quantity sheet to the cost sheet, which is suitably ruled for the purpose, and for convenience and quick identification, is of a different color.

This cost sheet shows not only the amount of work to be done, the unit and total costs, but also shows in detail how the unit costs were determined. This important feature of showing in detail on their permanent record how the price per cubic yard of concrete, etc., was arrived at is overlooked by some estimators. They often do all that work on scratch paper, and after it is destroyed it is hard to locate errors or check the accuracy of an estimate; or if not destroyed, this information is usually not available on short notice and not clear when found.





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There are several reasons for making these details a matter of orderly-arranged permanent record. In the first place, it costs no more than it does to do the same work in a slip-shod and haphazard manner, and it is a source of satisfaction to the constructor and tends to eliminate errors to have the records in such shape that they may be checked intelligently by anyone.

Also it has happened in the past and may happen again that the engineer or architect may decide to make a few changes in the plans between the time the estimate is made and the time for starting construction. If the constructor was required to turn in his plans with his bid, as is often the case, the only way he can detect such changes is by his own records. Constructors, as well as others, occasionally find themselves in court, and if original records are complete and in detail and arranged in an orderly manner, it makes a better impression on the court and jury. I know of one case where a constructor of the old school lost a just claim in court because all the records he could show of his complete estimate of a $65,000 job were a few figures on one side of a piece of letter-size paper and on the back of a No. 10 envelope.

Complete records also make a favorable impression with banks and bonding companies and serve to increase their confidence in one's ability to carry on the business successfully. Complete detailed estimates of quantities and costs in the office have a salutary effect on the field organization during construction. It is human nature for the field man to excuse his high costs by claiming the estimates are all wrong, which can frequently be proved if you do not give him a complete detailed statement showing just how the estimated costs were arrived at.

To get a low cost in the field, you must first convince the field man that the work can be done for your estimated cost, and the best way to inspire him with this confidence is to show him the line of reasoning used in arriving at the estimated cost, that similar work has been done at this cost, and that a competent man can do it again.

As several weeks or months generally elapse between the time of making the estimate and the time of doing the work, it can readily be seen that it is important that the estimate be in such shape that it can be checked and verified by anyone at any time.

Finally, in an organization of any size, no one man can do all the work, and it becomes necessary and desirable that more than one person work on an estimate for the preparation of a bid. In this case it is obvious that the different men in the organization must do their work in the same general way and commit everything to paper and not depend upon their memory as a storehouse for important facts and details.

Another important and fundamental idea in dealing with costs from the constructor's point of view is to co-ordinate the cost of keeping and cost estimating. The system used in keeping and recording actual cost obtained on work under construction must be such that the data so obtained can be readily used in estimating future work. Conversely, an estimate of cost should be so arranged and detailed that when the work is being done, the actual cost obtained is readily comparable to the estimate. In this way we improve our judgment by actual experience and at the same time we have a guide by which the cost of work under construction can be still further reduced.

I believe it is better to first estimate the "field" cost of a job—that is, the labor and materials actually expended and used in the field and which go directly into the work, and then add at the end of the estimate the overhead and indirect items. In most cases the field labor cost is the important variable item, and the one the field superintendent is responsible for; and it is the item that often turns an estimated profit into a loss.

The term "overhead" means different things to different people, but, as generally used, it refers in a broad way to those items of cost that are charged to a job as a whole, and which cannot often be charged to any particular item nor class work. Our practice in a case of this type is to divide it into job overhead and general overhead. By "job overhead" is meant those items of expense incurred by that particular job, such as job supervision, watching, waterboys, liability and builder's risk insurance, rentals and depreciation on equipment used on the job, field office expense and premium on bond, etc.

"General Overhead" refers to the cost of doing business or expense of main office and includes salaries of officers and executives, general supervision, office rent, cost of estimating, etc. This item is pretty nearly constant, regardless of the amount of work done. It, therefore, is important that the constructor keep a proper relation between the amount of his general overhead and the amount of work he can reasonably expect to do; for if his overhead is relatively high he will not be able to meet competition, and thus will not secure work to do. Or if he disregards the cost of overhead in his estimate, as some have done, he is surely doomed to quit business sooner or later. This item of overhead, because it is easily overlooked, consciously or unconsciously, is perhaps the cause of the downfall of new concerns in the construction industry more than anyone single item of cost estimating.

What is perhaps a source of wonder to owners, as well as to engineers in charge of work, is the reason for the great variations in bids from constructors for doing a certain specified amount of work. It is perhaps only fair to state that it is also true that some of the bidders on a job wonder how some of his competitors arrived at the amount of their proposals. Some of the things that cause wide variations in the proposals are as follows:

First: Sometimes a constructor does not want the job, but bids on it as a matter of policy. He, therefore, does not spend much time on his estimates and plays entirely safe by bidding high.

Second: A man may bid on a class of work that he is entirely unfamiliar with, and if he has no records of former bids of similar work to judge by he may be ultra conservative in his estimated costs, or he may be exceedingly low.

Third: It is a fact that occasionally crooked constructors or those entirely irresponsible put in a wild bid, usually much lower than the work can be done for, hoping by some trick or by some accident to get the job at an adjusted figure which will net them a profit.

Fourth: Errors in interpreting the plans and specifications often lead to large variances. This is especially liable to happen where only one man works up an estimate, and shows the importance of having at least two complete and independent estimates of the quantities of work to be done, and preferably by two different estimators.

Fifth: Occasionally a bidder will have inside information that the other bidders do not have, as to an impending drop in the prices of some materials of importance, or to proposed changes to be made in the plans after bids are received.

Sixth: Perhaps the greatest cause for wide variations in bids is a simple error in the estimate, usually in the addition or multiplication. I have compared estimates with a great many contractors after the letting of jobs, and can say that in 90 per cent. of the cases all great variations were found to be in the simplest of operations in preparing the summary of the estimate; what is commonly called a "bust." For example, in preparing an estimate of a building with eight or ten typical floors, it is an easy matter to include one floor too many, or one floor too few; that is, third to ninth floors inclusive are often taken as six floors.

(*Continued next week.*)

That plan of the king in olden times who killed the messenger who brought him bad news has my approval. Blessed are those who bring glad tidings! If you cannot write a good letter—don't!—Elbert Hubbard.

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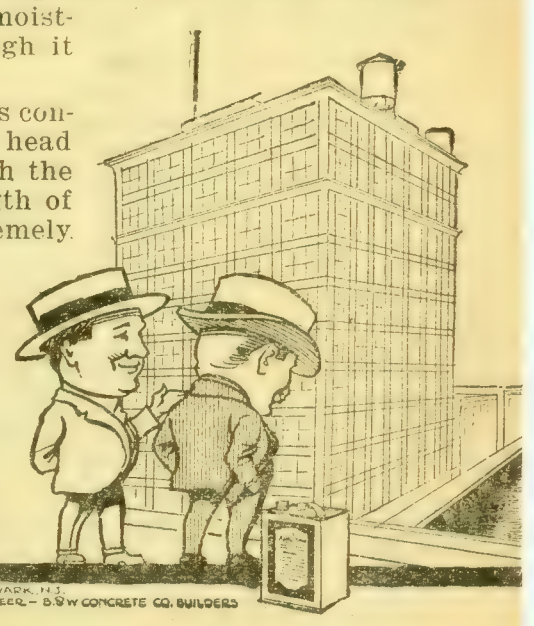
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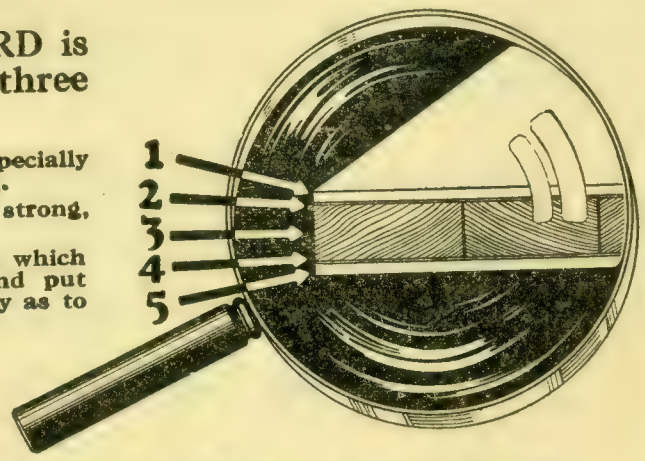
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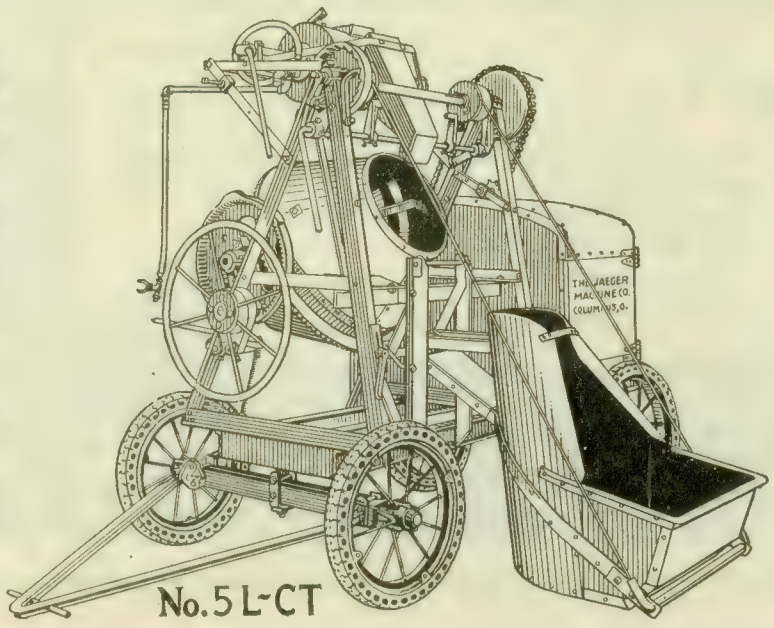
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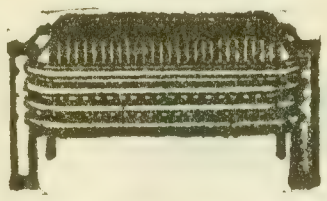
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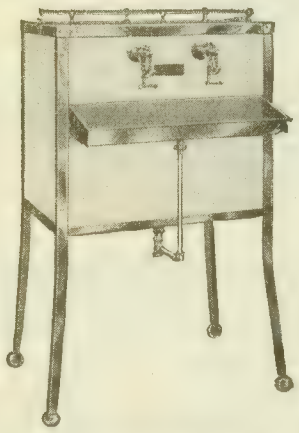
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

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As The Editor Sees It

ANALYSIS OF COST RECORDS IN CONSTRUCTION

Neglecting to Analyse the Plans and Specifications Carefully Has Caused Many Contractors and Builders to Sell

By E. W. ROBINSON, *Civil Engineer, McKenzie Construction Company, San Antonio, Texas*

(Continued from last week)

As the estimator's experience broadens he learns from his experience, and from the experience of others, a great many things affecting costs that may appear surprising on first thought. For instance, it is common practice by many to estimate the labor cost of placing wood trim in rooms, such as picture moulding, chair rail and baseboard at a certain price per lineal foot per member. Thus a three-member base would cost 50 per cent more to place than a two-member; yet in most cases, if a good job is required in fitting the base to the plaster wall, it may actually cost less to place three member base than that composed of two members.

Anyone will likely agree offhand that it should cost more to shovel by hand crushed stone than rounded gravel; and without further analysis to estimate the shoveling of all crushed stone alike. Yet, crushed stone of certain sizes, or where it is of uniform size, as it is for sprinkling filters, costs more to handle than a mixture of varying sizes. Also crushed trap rock weighing 3200 pounds per cubic yard will be more costly to handle than crushed limestone weighing 2500 pounds per cubic yard.

This is not only because of the weight of the stone itself, but because there seems to be a tendency for it to separate from the mortar in handling when used as a concrete aggregate.

There is a tendency for a person seeking information as to cost of mixing and placing concrete, for example, to watch a job under construction, count the number of men working, find out the number of cubic yards placed in an hour or a day, and take that as the labor cost for estimating the doing of similar work. Not only does such an estimator generally miss the lost time every job is subject to, but data taken in the morning when the men are fresh will not be comparable with what the same men may do in the afternoon when tired. Nor is work done on a cool day properly comparable with that done on a hot day.

Also if there is an extensive plant used in placing the concrete the casual observer does not get the cost of moving and preparing the plant for each run of concrete. The writer knows of two jobs where this cost was one-third of the total labor cost of placing concrete where the yardage involved amounted to 9000 cubic yards.

Inverted concrete spandrel beams on a building or through concrete girders on a bridge look the same as other beams and girders on the plans, but the labor cost of forming and placing concrete is from 25 to 50 per cent. higher than it is where the slab is at the top of the beam or girder Another matter of concrete design calling for additional labor cost is where the widths of beams cannot be formed with stock widths of lumber.

Also timber structures must be studied closely for waste in cutting from stock lengths of lumber. It has been found that frequently workmen will shovel and wheel gravel or crushed stone to a concrete mixer and take the concrete from the mixer at a cheaper price per cubic yard than they will shovel and wheel the same material the same total distance. All of these and many others of similar nature are usually gained from actual ex-

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perience and generally at some cost.

Some of the things which make one vary his estimated costs between jobs that to the inexperienced observer might appear to be identical in every respect are as follows:

First: *Market Conditions.* The tendency of the market for materials that go into any proposed job must always be taken into consideration, but especially is this important during an abnormally rising market. During 1919 and 1920, it was practically impossible to keep up with the market, for quotations on a great many materials of construction during this time were made subject to revision of price without notice. In many cases no assurance would be given as to delivery after orders were placed, and cancellations of orders were frequent.

Second: *Weather and Season.* While it is not considered good form to predict the state of weather in certain parts of the country, yet the probability of a wet or dry year would justify a liberal or close estimate. Also the time of year when the work will be executed might easily influence the proposal.

Third: *General Contingencies.* These refer to possible losses that may be suffered by acts of God, unknown sub-surface conditions, strikes, both direct and sympathetic, etc. The hazard from these things vary as to the nature of the work, location, time of year, etc.

Fourth: *Labor Conditions.* This refers to both the supply and efficiency, though to a great extent the latter is dependent upon the supply. Along the Mexican border the supply of labor is generally plentiful, but also generally inefficient. The supply of common labor in central and north Texas usually decreases during the cotton picking season and must be reckoned with in the estimate where common labor is an important item. At the present time a constructor should be liberal in estimating labor on brick work and plastering in almost any part of the United States on account of the scarcity and inefficiency of mechanics in these lines, and the constantly increasing rates of wages they are demanding and receiving.

Fifth: *Available Supervision.* On large jobs it may be economical to obtain a field superintendent of special qualifications to look after the work, but on the general run of jobs it may not always be possible to get the man best qualified for the particular work. It is economical generally to keep one's permanent personnel as constantly employed as possible, and other jobs or unforeseen conditions may make a last moment chance desirable.

Sixth: *Available Equipment.* The same things are true with regard to equipment as with supervision.

Seventh: *Overhead.* As stated before, general overhead is pretty much a constant expense, yet on a proposed job where it is evident that more than the usual attention will be required of the main office, an additional allowance over that usually allowed should be provided in the estimate of cost. This is true of some jobs located at considerable distance from the main office, and where traveling and other transportation expense will be unusually heavy.

Eighth: *Engineer's or Architect's* Reputation. A young or inexperienced engineer or architect in charge of work will often justify a more liberal estimate of cost than would otherwise be figured. It is also true to human nature for a contractor to figure a rock bottom price for his work if the engineer has a reputation for not only being competent, but for being absolutely fair in all his dealings with contractors in the past.

No reputable constructor can have any objection to the engineer insisting on everything called for in the plans and specifications, both as to quantity and quality, but cases have been known where the engineer or architect had a habit of insisting on more or better work than that specified without additional compensation.

It is generally conceded that both parties to any contract have rights as well as responsibilities, and that the engineer or architect on a piece of construction work is supposed to be a fair and impartial judge between the two parties. One important thing that is conducive to a low estimate of cost on the part of the constructor is for the engineer or architect to have a general reputation for exerting something like the same energy in defending the rights of the constructor as he does in defending the rights of the owner.

A careful perusal of the specifications of an important job totaling $100,000 disclosed the facts that the contractor had only "duties" and "responsibilities," while the owner had only "rights." This in itself may mean nothing, yet it tends to show the state of mind of the writer of the specifications, and if the prospective bidder has nothing else by which to judge the engineer he would likely re-

(Continued on page 674)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

School, Allen's lane, Mt. Airy, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Plans completed. Ready for bids in two weeks. Bids due November 1st.

Garage, 1136-38-40 East Passyunk avenue, Philadelphia. Architects, Durham Brothers, 34 South Seventeenth street, Philadelphia. Owner, George Andrew, 1162 South Tenth street. Brick, steel, reinforced concrete, 2 stories, 64x70 feet, slag roof, reinforced concrete floors, elevators, steam heat, electric light. Plans in progress. Owner will be ready for sub-bids in one week.

Individual Garages (35), 70 East Bringhurst street, Philadelphia. Architects, Durham Brothers, 34 South Seventeenth street, Philadelphia. Owner, F. Riggs, on premises. Concrete block, 1 story, 8x17 feet each, slag roof, cement floors, electric light, partition (metal). Plans completed. Owner will build and is taking sub-bids.

Superintendent's Cottage, Shallcross School, Byberry, Pa. Architect, I. T. Catherine, Nineteenth aobve Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. All bids rejected. Will readvertise for bids.

Publishing Building, Southwest Corner Nineteenth and Bainbridge streets, Philadelphia. Architect, Louis A. S. Ballinger, 525 Fifth avenue, Pittsburgh, Pa. Owners, African Methodist Episcopal Church, Rev. D. I. A. Baxter, 631 Pine street, Philadelphia. Brick, steel, 5 stories and basement, 34x60 feet, slag roof, cement floors, elevators, steam heat, electric light, metal lath, ornamental iron work. Architect taking bids due October 25th.

Restaurant and Apartments (2), 21 Christian street, Philadelphia. Architects, Durham Brothers, 34 South Seventeenth street, Philadelphia. Owner, Joseph Phillip, 127 Christian street, Philadelphia. Brick, 3 stories, 22½x61 feet, slag roof, pine floors, hot water heat, electric light. Owner taking bids.

Grading and Paving Roads and Walks, Bensalem and Strahle road, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Baptist Home, on premises. Cement work, etc. Architect taking bids due November 20th.

Parochial School, 623-35 Christian street, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Mary Magdalen Di Pazzi, Rt. Rev. Monsignor A. Garritano, 710 Montrose Street, Philadelphia. Plans in progress.

Boxing Club, Auto Sales and Service Station and Garage, Northeast Corner Broad and Christian streets, Philadelphia. Architects, Watts & Coscia, 1504 Locust street, Philadelphia. Owner, James Poppi, 1408 South Broad street, Philadelphia. Brick, steel, concrete, 1 story, basement and balcony, 60x150 feet, built-up roof, cement and maple floors. Preliminary sketches in progress.

Parochial School, Gaul and Berks streets, Philadelphia. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, Holy Name Roman Catholic Church, Rev. G. R. Scholz, on premises. Brick, steel, reinforced concrete, stone, 2 stories and basement, 52x125 feet, slag roof, maple floors, vapor heat, electric light, steel sash, metal doors. Plans completed. Architect ready for bids.

Church (interior finish), Fifty-sixth and Cedar avenue, Philadelphia. Architect, Henry D. Dagit & Son, 1329 Race street, Philadelphia. Owners, Church of Transfiguration of Our Lord, Rev. D. I. McGettigan, on premises. Bond, stone work, limestone, cut stone, sandstone, concrete, architectural terra cotta, iron work, steel work, iron stairs, metal lath, plastering, ornamental plaster, carpentry and mill work, maple floors, painting and glazing, terrazzo and mosaic floors, bronze and faience tile, electric light. Architects taking bids due November 12th.

Manufacturing Building, Noble, Hamilton, above Thirteenth street, Philadelphia. Architect, P. S. Tyre, 114 South Fifteenth street, Philadelphia. Owner, R. H. Greenburg, Morris Building, Philadelphia. Architect taking bids due October 27th, 10 A. M.

Residences (2), Northwest Corner Seventy-eighth and Brunswick avenue, Philadelphia, $5,000. Architect, private plans. Owner, Bernardo Manganello, 6124 Wheeler street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, hardwood floors, pine floors, hot water heat, electric light. Permit issued.

Gas Station, Northeast Corner Penn and Greene streets, Philadelphia, $10,000. Architect, private plans. Owners, the Pure Oil Co., 908 Widener Building, Philadelphia. Brick, 1 story ,16x31 feet, cement work, electric work. Permit issued.

Residences (2), North side Hartel street, West of Walker St., $4,500 each. Architect, private plans. Owner, E. M. Carlston, Sr., 3224 Higby street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (6), North side Fuller street, West of Loretta street, $4,200 each. Architect, private plans. Owners, Louis Leitenberger's Sons, 7345 Oxford street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (10), North side Croyden street, West of Thompson street, $25,000. Architect, private plans. Owner, Stanley Bialas, 4353 Belgrade street, Philadelphia. Brick, 2 stories, 16x49 feet, 16x2 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residence, 4934 Kershaw street, Philadelphia, $3,000. Architect, private plans. Owner, Frank Angelo, 4993 Girard avenue, Philadelphia. Brick, 2 stories, 20x22 feet, slag roof, pine floors, steam heat, electric light. Permit issued.

Residences (5), 3014-22 Janney street, Philadelphia, $2,200 each. Architect, private plans. Owner, Christian Dear, Sr., 4801 North Third street, Philadelphia. Brick, 2 stories, 15x26 feet, 11x10 feet, slag roof, pine floors, electric light. Permit issued.

Residences (6), South side Nedro avenue, East of Twentieth street, Philadelphia, $27,500. Architect, private plans. Owner, John J. Bateman, 5600 Germantown avenue, Philadelphia. Brick, 2 stories, 15x29 feet, 12x11 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Service Station (add.), South side Carpenter street, West of Twenty-third street, $20,000. Owner, Edward M. Harris, 2220 Chestnut street, Philadelphia. Brick, 1 story add., 16 feet 8 inches x 113 feet, slag roof, cement floors. Permit issued.

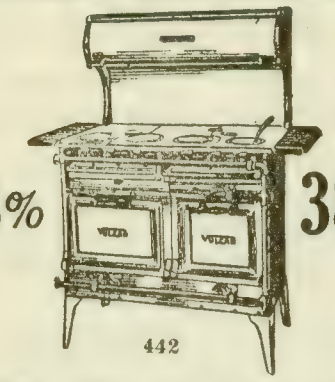
Residence, Third street, South of Sixty-sixth avenue, Philadelphia, $7,000. Architect, private plans. Owner, Robert Cullen, 5512 North American street, Philadelphia. Frame, 2 stories, 26x40 feet, hardwood and pine floors, hot air heat, electric light. Permit issued.

Sewer Work, Philadelphia. Owners, Department of Public Works, Philadelphia. Low bidders. Sewage system, Thirty-fourth and Pine streets, The Hamilton Co., Chelten and Greene street, Philadelphia, $43,995.25. Branch sewers: Aramingo, Locust and Sanger streets, Saboline & Belorgo, 1720 South Chadwick streets, Philadelphia, $3,570.50. Fourth street, Tulip to Keystone, Saboline & Belorge, 1720 South Chadwick street, Philadelphia, $1,494.50. Vaux street, Worden to School House lane, A. Perna & Son, 752 South Tenth street, Philadelphia, $10,415.75. Erdrick, Vankirk to Howell, V. S. Capellone, 812 West Venango street, Philadelphia, $2,925. Scattergood street, Torresdale avenue to Tulip, F. T. Buckius, Kensington and Deal streets, Philadelphia, $2,697. Schedule B, main sewers: Greenwood avenue, P. & A. J. Ellis, Fourth below Wyoming avenue, $144,669. Whitaker avenue, Joffolo & Mark, care of owner, $115,444. Magee avenue, Enole to Tabor, F. T. Buckius, Kensington and Deal streets, Philadelphia, $4,435. Magee avenue to Enole and Tabor road, Joffola & Mark, care of owners, $40,855.

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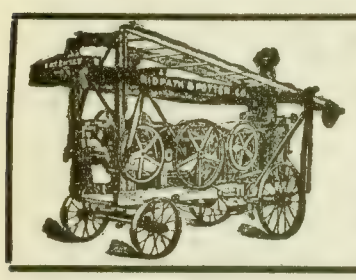
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Residences (21), 2111-49 Sanger Street, Philadelphia, $74,0000. Architect, private plans. Owner, Burton C. Simon, 20th and Passyunk Ave., Philadelphia. Brick, 2 stories, 15x31 feet, 15x10 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (3), 2540-42-44 E. Ontario St., Philadelphia, $9900. Architect, private plans. Owner, Walter Rybas, 3334 Edgemont St., Philadelphia. Brick, 2 stories, 14x43 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Mill Bldg (add.), "A" and Courtland Sts. Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, Concordia Silk Mills, on premises. Brick and steel. Plans completed. Architect ready for bids.

Apartment House, Eighth street, North of Sixty-third Ave., Philadelphia. Architect, Adin Benedict Lacey, 1012 Walnut Street, Philadelphia Owner, name withheld. Brick, steel, 3 stories, 80x160 feet, slag roof, oak and pine floors, steam heat, electric light, metal lath, tile work. Architect taking preliminary bids due Oct. 21.

Service Station, Wynecote Avenue and Beachwood St, Philadelphia Owner, Charles Kahn, Morris Building, Philadelphia. Grading, paving, cement work, hollow tile, electric light. Owner will build.

Apartments (48), McCallum and Sedgwick Avenue and Cherokee Street, Philadelphia, $750,000 Architect, private plans. Owner, Dr. Robert Simpson, care of G. H. Weinrott, Public Ledger Building, Philadelphia. Brick, 2 stories, hot water heat, electric light, hardwood floors, kitchen and laundry equipment, tile work. Plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Fraternity House (alts. and add.), 3815 Walnut street, Philadelphia. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owners, Phi Beta Delta Fraternity, on premises. Brick, 3 stories and basement, 18x18 feet, terra cotta and tile roof, cement and mahogany floors, ornamental iron work, bond, tile and marble work, metal lath, electric light (heating and linoleum floors reserved), flagstone, brass pipe, artificial stone. Contract awarded S. H. Levin, Elrae Building, Philadelphia.

Club House, Coulter street, below Germantown avenue, Philadelphia. Architect, Edgar A. Wightman, 1524 Chestnut street, Philadelphia. Owners, Germantown Square Club, Howard Smith, 4 Armat street, Philadelphia. Brick, steel, limestone, 2 stories and basement, 60x110 feet (heating, plumbing, electric light, sprinkler reserved), metal partitions, asphalt roof, cement and maple floors, metal lath, tile work, rolled steel sash, sash, bond, ornamental iron work, composition floors. Contract awarded Harry Gill, Jr., 2515 Germantown avenue, Philadelphia.

Boiler House (alts.), etc., Orianna and Willows avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Hubschman & Son, Inc., on premises. Foundations, new boiler breeching, etc. Contract awarded Monaghan & Losse, 3016 Chestnut street, Philadelphia. Boiler breeching, etc., Coatesville Boiler Co., Packard Building, Philadelphia.

Elementary School, Thomas and Baltimore avenues, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contracts awarded: McCloskey Co., 1620 Thompson street, Philadelphia, $368,863. Plumbing, Newell & Son, 2035 Arch street, Philadelphia, $17,658. Heating, McClintock & Co., 5608 Race street, Philadelphia, $33,785. Ventilating, A. & W. Wegman, 2813 West Fletcher street, Philadelphia, $1,244. Electric, Mitchell & Co., 1337 McFerran street, Philadelphia, $6,990.

Starr Garden Recreation Center, Seventh and Lombard streets, Philadelphia, $11,995. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Works, Bureau of Recreation, 595 City Hall. Contracts awarded: Woodland Const. Co., Fifty-fourth and Chester avenue, Philadelphia. Plumbing and heating, Joseph Hart, 1948 North Croskey street, Philadelphia, $1,900. Electric, Mitchell & Co., 1337 McFerran street, Philadelphia, $415.

Contract 29 D, E and F, Delaware River Bridge. Owners, Delaware River Bridge Joint Commission, Widener Building, Philadelphia. Plumbing, heating, electric equipment for fourth abutment, Philadelphia. Contracts

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awarded, care of Schedule D, John Borden, 637 North Nineteenth street, Philadelphia, $2,263. E, McClintock & Co., 5608 Race street, Philadelphia, $2,673. F. W. V. Pangborne, 1927 West Montgomery avenue, $3,831.

Stores (4), Apartments (5), Seventy-ninth and West Chester road, Philadelphia. Architect, David Supowitz, 929 Chestnut street, Philadelphia. Owner, Sol. Hopkins, Northeast Corner Sixty-second and Market streets, Philadelphia. Brick, 2 stories, 17x75 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, plate glass. Contract awarded L. N. Devon, 5602 Florence ave., Philadelphia, who is taking sub-bids.

Residence (alts.) to Apartments (12), 4529 Spruce street, Philadelphia. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owner, Max Waber, on premises. Stone, 3 stories, 30x60 feet, hot water heat, oil burner, electric light, hardfood floors, Murphy beds, kitchen and laundry equipment, carpentry and mill work, twelve baths. Contract awarded L. N. Devon, 5602 Florence avenue, Philadelphia.

Synagogue (fire repairs), Fifth and Lombard streets, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owners, Bnai Abraham Congregation, on premises. Brick, cement work, demolition, slag roof, iron work, painting and glazing, plumbing (heating separate). Contract awarded to H. M. Shandles, 617 Pine street, Philadelphia.

Garage, 2126 South Seventieth street, Philadelphia, $3,800. Architect, private plans. Owner, N. Timothy Mahoney, 2126 South Seventieth street, Philadelphia. Brick, 1 story, 98x18 feet, slag roof, cement floors, electric work. Contract awarded to Hoctor & Otty, 4625 Lancaster avenue, Philadelphia.

Store and Residence (add.), 1310 South street, Philadelphia, $2,500. Architect, private plans. Owner, Joseph F. Dailey, 4650 Larchwood avenue, Philadelphia. Brick add., 8x10 feet, pine floors, electric work. Contract awarded to William H. Erl's Sons, 4133 Springfield avenue.

Bank (alts.), 713 Chestnut street, Philadelphia, $30,000. Architect, private plans. Owners, National Bank of Commerce, 713 Chestnut street, Philadelphia. General alterations. Contract awarded to Wark Co., 1600 Walnut street, Philadelphia.

Church, West side Nineteenth street, North of Porter street, Philadelphia, $17,500. Architect, private plans. Owners, Mt. Herman Methodist Episcopal Church, Nineteenth and Porter streets, Philadelphia. Brick, 1 story, 50x65 feet add., slag roof, electric lighting. Contract awarded to Beling-Bush Co., Drexel Building, Philadelphia.

Residence (alts.), 1836 Delancey street, Philadelphia, $10,000. Architect, private plans. Owner, Simon S. Newman, Snyder and Water streets, Philadelphia. General alterations. Contract awarded to Barnett Co., 519 Pennsylvania Building, Philadelphia.

Residence and Store (add. and alts.), 632 South street, Philadelphia, $9,800. Architect, private plans. Owner, J. Goldenburg, 632 South street, Philadelphia. Brick, 3 stories add., 19x12 feet, general alterations. Contract awarded to Harry Goldberg, 2419 South Fairhill street, Philadelphia.

Manufacturing Building (add.), 137 Berkley street, Philadelphia, $25,000. Architect, private plans. Owners, Van Stratton & Harvey, on premises. Brick, 4 stories add., 26 feet 9 inches x 115 feet 8 inches. Contract awarded to T. M. Keeley, 4411 Germantown avenue, Philadelphia.

Residence and Store (add.), Cheltenham avenue, West of York road, $5,300. Architect, private plans. Owner, John T. Wist, 7112 York road, Philadelphia. Brick, 1 story add., 32x18 feet, slag roof, pine floors. Contract awarded to Louis F. Kirlin, 7029 York road, Philadelphia.

Residences (2) (alts.), 1631-33 Ogden street, Philadelphia, $4,000 total. Architect, private plans. Owner, William H. Good, Land Title Building, Philadelphia. General alterations. Contract awarded to National Const. Co., 26 South Fifteenth street, Philadelphia.

Building (add. and alts.), 2409 Columbia avenue, Philadelphia, $3,000. Architect, private plans. Owner, Pennock Bailey, 220 West Penn street, Philadelphia. Brick, 1 story add., 13x9 feet, general alterations. Contract awarded to W. R. Waymon, 741 South Chadwick street, Philadelphia.

Club, 1229-31 North Sixth street, Philadelphia, $3,000. Architect, private plans. Owners, Young Hungarian Boys' Association, on premises. Brick, 1 story, 25x53 feet, slag roof, pine floors, electric light. Contract awarded to J. Satler, 1408 North Marshall street, Philadelphia.

Residence and Store (add.), 147 West Wyoming avenue, Philadelphia, $2,200. Architect, private plans. Owner, E. Buck, on premises. Brick, 1 story add., 13x23 feet, slag roof, pine floors, electric work. Contract awarded to J. Sosnofsky, 3129 Montgomery avenue, Philadelphia.

Manufacturing Building, Large street, North of Orthodox street, $30,000. Owners, La France Textile Co., 4423 Frankford avenue, Philadelyhia. Brick, 2 stories, 60x53 feet, slag roof, electric work. Contract awarded to Wintz Brothers, Inc., 1618 Sellers street, Philadelphia.

Factory (add.), Southeast Corner Second and Somerset streets, Philadelphia, $13,000. Architect, private plans. Owners, Brewer Brothers Co., 2743 North Second street, Philadelphia. Brick, 1 story add., 45x108 feet,

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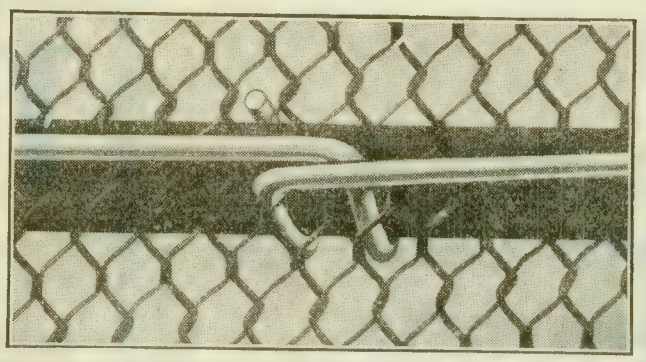
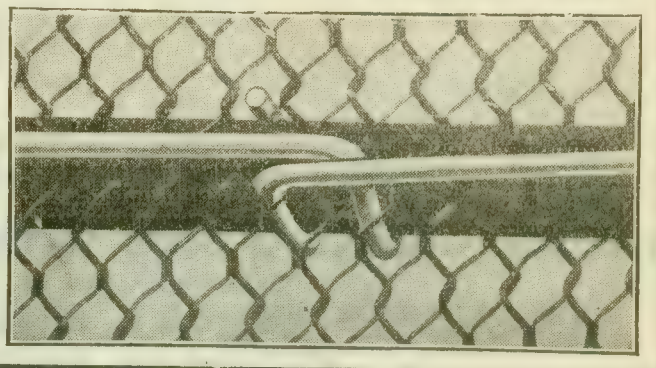
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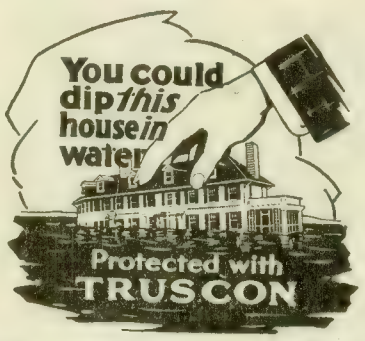
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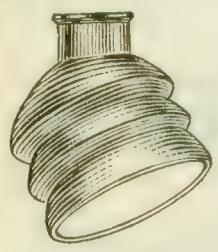
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slag roof, electric light. Contract awarded to Frank K. Stahl, 2711 North Park avenue, Philadelphia.

Store, Northwest Corner Fifteenth and Brandywine streets, Philadelphia, $7,300. Architect, private plans. Owners, Fink & Lazawich, Real Estate Trust Building, Philadelphia. Brick, 1 story, 20x60 feet, slag roof, pine floors, electric work. Contract awarded to Robbins Cont. Co., 1137 North Front street, Philadelphia.

Store, 2144 East Chelten avenue, Philadelphia, $5,000. Owner, Rose Levin, on premises. Brick, 1 story, 20x55 feet, slag roof, pine floors, electric work. Contract awarded to A. N. Tatro, 3617 North Broad street, Philadelphia.

Store and Residence (add.), 3721 York road, Philadelphia, $4,000. Owner, Sallie Gregory, on premises. Brick, 1 story add., 40 feet 6 inches x 28 feet, slag roof, pine floors. Contract awarded to Charles T. Clark, Germantown and Sedgley avenues, Philadelphia.

Miscellaneous Work, Philadelphia. Owner, Department of Public Works, Bureau of Water, Philadelhia. Contract No. 838, Furnish and lay various pipe lines. M. and J. B. McHugh, 892 N. Markoe Street, Philadelphia, $133,881.40. Contract No. 841, Furnish and Deliver Filter Sand and Gravel, Cape May Sand Co., 30 Quincy St., Philadelphia, $5,850.00. Contract No. 842, Furnish and deliver Binders, Departmental Supply Co., 705 Filbert St., Philadelphia, $2,582.75. Contract No. 845, Furnish and Deliver Single Nozzle Fire Hydrants, Smith Const. Co., care of Owners, $14,550. Contract No. 846, Spar parts for Belmont, Philadelphia Gear Works, Richmond and Tioga St., Philadelphia, $2,580. Contract No. 847, Coal Conveyor Belt, Lardners Point, Quaker City Rubber Co., Comly and Milnor St., $1,962.00.

Store and Office Building, 928 Chestnut St., Philadelphia. Architect, Benj. R. Stevens, 1827 Arch St., Philadelphia. Owner, Singer Sewing Machine Co., 924 Chestnut Street, Philadelphia. Brick, granite, limestone, steel 4 stories and basement, 93x20 feet, steam heat, electric light, metal lath, tile and marble work, J. Mansville asbestos built up roof, rubber tile and cement floors, hollow tile, elevators, roof ventilators, shoring, Truscom waterproofing, terra cotta coping, ornamental iron work, iron stairs, bond, fire doors, rolled steel skylights, tile and marble work, metal lath, sprinkler system, plumbing, metal casement windows, stedman floors, linoleum, brasspipe. Contract awarded Bowden Construction Co., 1607 Summer Street, Philadelphia.

Building (alts.), 5005 Pine Street, Philadelphia. Architect, private plans. Owner, William Moore, on premises. Brick, 1 story, 11x12 feet, tin roof, pine floors, carpentry and millwork, plastering, painting ad glazig, hardware. Contract awarded H. E. Grau, Co., 1707 Sansom St., Philadelphia.

Church, 5331-33-35 Pulaski Ave., Philadelphia, $50,000. Architects, Druckenmiller & Williams, 1637 Chestnut Street, Philadelphia. Owners, Faith Presbyterian Church, Rev. Lewis Baxter Moore, 2232 Master Street, Philadelphia. Brick, 2 stories, 42x78 feet, pine floors, electric light. Contract awarded to Simon Kaplan, 243 South Sixty-second Street, Philadelphia.

Residence and Store (add. and alts.), 1641 Christian St., $2500. Architect, private plans. Owners, Baer and Snyder, 1641 Christian St., Philadelphia. Brick, 3 stories addition, 12x41 feet, general alterations. Contract awarded to J. Satler, 1408 N. Marshall St., Philadelphia.

Pennsylvania Construction News

Residence, Swarthmore, Pa. Architect, W. W. Price, 119 South Fourth street, Philadelphia. Owner, Dr. LeRoy Mercer, care of architect. Preliminary plans in progress.

Church, Sunday School and Convent, Birdsboro, Pa. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owners, Immaculate Conception Roman Catholic Church, Rev. L. D. Burns, Birdsboro, Pa. Preliminary plans in progress.

Home (add.), Chatham, Pa. Associate architects, Simon, Wasserman and Charles R. Peddle, 119 South Fourth street, Philadelphia. Owners, Machabees' International Home, Chatham, Pa. Architects selected. Too early for details.

Twin Residences (3 pair), Alexander avenue and Jones road, Drexel Heights, Pa. Architects, Durham Brothers, 34 South Seventeenth street, Philadelphia. Owner, Max Bolen, 38-40-42 West Susquehanna avenue, Philadelphia. Cinder block, stucco, 2 stories, 16x41 feet, slag roof, hardwood adn pine floors, cement work, hot water heat, tile work. Owner will build and is taking sub-bids.

Residence and Garage, Chestnut Hill, Pa. Architeces, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, Samuel Bell, 3rd, 7816 Roanoke street, Philadelphia. Stone and half timber, 2½ stories, 24x100 feet, shingle roof, cement and hardwood floors, hot water heat, electric light, tile and marble work. Architects will be ready for bids in ten days.

Residence and Garage, Wynnewood, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owner, Frank R. Shriver, Fifty-first and Catherine streets, Philadelphia. Stone, 2½ stories, 50x90 feet, 1 story, 20x24 feet, slate roof, hardwood floors, cement work, hot water heat, electric light, tile and marble work (3 baths). Plans in progress. Owner will build and will be ready for sub-bids in three weeks.

Bank Building and Apartment Building, Llanerch, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Suburban Title & Trust Co., care of George Wilcox, Upper Darby, Pa. Limestone, 2 stories, 50x100 feet, vapor heat, electric light, slag roof, tile, linoleum and composition floors, ventilating system, plumbing, marble work, cast iron work, caen stone, bronze. Architects taking sub-bids.

High School, Greensburg, Pa. Architects, M. E. Kressly & Co., Commonwealth Building, Harrisburg. Owners, School District of Greensburg Borough, Ida E. Blackburn, president, Board of Directors, Greensburg, Pa. Furnishing and installation of auditorium and choral room seating. Owners taking bids due October 26th at 6 P. M.

School, Boothwyn, Pa. Architects, Stackhouse & Donohoe, 266 South Fifteenth street, Philadelphia. Owners, School District, Upper Chichester Township, F. Sayder, Boothwyn, Pa. Brick, steel, cut stone, 1 story and base-

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ment, 110x36 feet, wing 23x60 feet, 26x60 feet (plumbing, heating and electric separate), metal lath, rolled steel sash, galvanized iron skylights, tin-lined doors, floor hardener, ornamental iron work, slag roof, cement and maple floors, hollow tile, metal weather strip, dampproofing, hollow concrete block, area gratings. Certified check 10 per cent. Deposit, $20. Owners taking bids due October 30th, 2 P. M.

Bank and Office, Carbondale, Pa. Architect, not yet selected. Owners, First National Bank, Carbondale, Pa. Work contemplated.

Hospital (add.), Carbondale, Pa. Architect, not yet selected. Owners, St. Joseph's Hospital, Carbondale, Pa. Work contemplated.

Stores (3) and Apartments, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Mr. Mainker, care of architect. Brick, steel, 3 stories, 57x110 feet, slag roof, hardwood floors, steam heat, electric light, metal lath, tile work, skylights, plate glass, iron stairs. Plans in progress.

Hotel (alts.), Scranton, Pa. Architect, not yet selected. Owners, Hotel Jermyn Co., J. F. Downey, Hotel Aberdeen, 17 West Thirty-second street, New York. General alterations, new cafeteria and dining room. Plans in progress.

Store and Apartment (add. and alts.), Duryea, Pa. Architect, Edward Rutledge, Union Bank Building, Scranton, Pa. Owner, Isadore Silk, Duryea, Pa. Brick, 1 story, 8x50 feet, asphalt shingle roof, hardwood and tile floors, steam heat, electric light, tile work, general alterations, metal ceilings. Plans in progress.

Residence, Waverly, Pa. Architect, F. A. Nelson, Connell Building, Scranton, Pa. Owner, Edward Warren, Waverly, Pa. Frame, 2 stories, 35x72 feet, shingle roof, hardwood floors, tile work, electric light. Plans in progress.

Garage and Apartment, Northampton, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Michael Budinetz, Northampton, Pa. Brick, steel, 2 stories, 85x27 feet, slag roof, concrete and hardwood floors, steam heat, electric light, metal lath, tile work. Architect ready for bids.

Residence, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, J. H. Newheart, 723 Tilghman street, Allentown, Pa. Brick, 2½ stories, 50x35 feet, tile roof, hardwood floors, tile work, hot water heat, electric light. Owner will build.

School, Lansdale, Pa. Architect, Watson W. Philips, 215 South Fifteenth street, Philadelphia. Owners, Board of Education, Lansdale, Pa. Brick, 2 stories, 173x78 feet, slag roof, electric light, heating and ventilating, concrete work. Owner taking bids due November 1st at 8 P. M.

Residence and Hall, Scranton, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Marywood College, 2300 Adams avenue, Scranton, Pa. Brick, stone, fireproof, 3 stories, 106x138 feet, hardwood and composition floors, hollow tile, metal lath, tile and marble work. Owners and architect taking sub-bids.

Store and Apartment (add. and alts.), Wilkes-Barre, Pa. Architect, Schroeder and Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Brick and terra cotta, 3 stories, 43x94 feet, slag roof, pine floors, electric light. Plans in progress.

Church, Sweet Valley, Pa. Architect, H. G. Cook, Jr., Miners' Bank Building, Wilkes-Barre, Pa. Owners, First Christian Church, Rev. Crosby, Sweet Valley, Pa. Brick or frame, 45x45 feet or 27x60 feet, fireproof roof, pine floors, hot air heat, electric light. Plans in progress.

High School, Dickson City, Pa., $270,000. Architect, J. A. McGlynn, Simon Long Bldg., Wilkes-Barre, Pa. Owners, Dickson City School Board, F. Weeland, Secretary, Dickson City, Pa. Plans in progress.

Factory (add.), Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre Pa. Owners, J. K. Stelioles, care of Architect. Slow burning construction, 3 stories, 46x22 feet, slag roof, pine floors, roof ventilators, rolled steel sash, fire doors. Plans in progress. Architect will be ready for bids in a few days.

High School, Kingston, Pa., $675,000. Architects, Mack and Cahm, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Kingston School Board, W. H. Evans, Secretary, Kingston. Fireproof, 2 stories and basement, 276x180 feet, composition roof, composition and maple floors, hollow tile, safety treads, roof ventilators, waterproofing, dampproofing, ornamental iron, iron stairs, fire doors, skylights, steel sash, tile work, metal lath, (heating, plumbing and electric, separate). Owners ready for bids November 1st.

Bottling Works, Wilkes-Barre, Pa. Architect, Austin Reilly, Bennett Square, Wilkes-Barre, Pa. Owner, John Ginn Nat. Bottling Works, Miners' Mills, Pa. Brick, steel, 2 stories, 32x90 feet, asphalt roof, concrete floors, rolling steel doors, fire doors, steam heat, electric light. Architect taking revised bids.

Pennsylvania Contracts Awarded

Nurses' Home, Mercy Hospital, Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, Mercy Hospital, 186 Hanover St., Wilkes-Bare, Pa. Brick, steel, 4 stories and basement, 45x160 feet, composition roof and floors, hollow tile, elevators, steam heat, electric light, metal lath. Contract awarded to John Curtis and Co., 1 Hickory Street, Wilkes-Barre, Pa.

Church (add. and alts.), Edwardsville, Pa. Architect, H. G. Cook, Jr., Miners' Bank Building, Wilkes-Barre, Pa. Owners, Immanuel Baptist Congregational Church, Evans Wolfe, Edwarsville, Pa. Frame, 1 story and basement, 12x36 feet, general alterations. Contract awarded to Anthony Manganelli, Wyoming, Pa.

Garage, Wilkes-Barre, Pa. Architect, Schroeder and Schmidt, Weitzenkohn Bldg., Wilkes-Barre, Pa. Owners, Maloney Oil Co., Kingston, Pa. Concrete block, 2 stories and basement, 38x60 feet, slag roof, concrete floors, steam heat, electric light, steel sash. Contract awarded to A. M. Hildebrand 91 Wood St., Wilkes-Barre.



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Vocational Training School, Church and Oak streets, Norristown, Pa. Architect, E. Lane Crawford, Curren Arcade, Norristown, Pa. Owners, Board of Education, J. Akins, President H. R. Kratz, Norristown, Pa. Brick, 2 stories and basement, 56x75 feet, slag roof, maple floors, steam heat, electric light, rolled steel sash, plumbing. Contract awarded A. J. Kinsella, Norristown, Pa., $30,840. Plumbing, Crissman & Quillman, Norristown, Pa., $14,000. Electric, J. Frank Boyer, Norristown, Pa., $1,374.54. Heating, American Heating & Ventilating Co., Schaff Building, Philadelphia, $5,990.

Residence, Bryn Mawr, Pa. Architects, Walker & Jellett, 129 East One Hundred and Thirty-seventh street, New York. Owner, Charles Wheeler, Bryn Mawr, Pa. Stone, stucco, 2½ stories and basement, 107x102 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia.

High School, Warrior Run, Pa. Architect, J. A. Boyle, Bennett Building, Wilkes-Barre, Pa. Owners, Warrior Run School Board, C. Wayne, secretary, Warrior Run, Pa. Steel, brick, stone, limestone, 2 stories and basement, 94x100 feet, slag roof, hardwood and concrete floors, metal ceilings, fire escape, bond, skylights, metal lath (heating, plumbing and electric separate). Contract awarded to E. J. Donahue, Ashley, Pa.

Garage and Apartment, Northampton, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, W. W. Hunt, Seventh and Washington streets, Northampton, Pa. Brick, steel, 3 stories, 30x50 feet, slag roof, concrete and wood floors, steam heat, electric light, tile work, iron stairs. Contract awarded to Miller Selfies, Northampton, Pa.

Bank Building (add.), Bethlehem, Pa., $50,000. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Bethlehem Trust Co., Broad and Main streets, Bethlehem, Pa. Granite, concrete, steel, 1 story, 40x50 feet, heating extension, electric work, marble, bronze, ornamental iron, terra cotta. Contract awarded to Thomas W. Cissel, 1130 New street, Bethlehem, Pa.

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Pennsylvania State Highway Work.

Erie county, R-495, A-4377, Lawrence Park Township. Bituminous surface course on concrete base course. Contract awarded to J. & M. Doyle Co., Erie, Pa., $34,150.35.

Bucks County, R-150, Morrisville Borough. One course reinforced concrete. Contract awarded to Union Paving Co., Thirtieth and Locust streets, Philadelphia, $30,716.88.

Beaver County, R-270, A-4359, Brighton Township. One course reinforced concrete. Contract awarded to F. F. Hallam & Son, Beaver, Pa., $32,095.35.

Delaware County, R-133, A-4382, Upper Darby Township. One course reinforced concrete. Contract awarded to McNichol Paving & Const. Co., 1923 Cherry street, Philadelphia, $53,244.57.

Dauphin County, Plaza at Capitol Building, Harrisburg, Pa. One course reinforced concrete. Contract awarded to J. A. Albright, Penbrook, Pa., $25,598.65.

Armstrong and Indiana Counties, R-319, A-4127, 4103, Armstrong and South Bend Townships, Shelocta Borough. One course reinforced concrete. Contract awarded to McClure & Dingner Co., Inc., Johnstown, Pa., $159,365.11.

Northumberland County, R-1, A-3075, Jackson and Lower Augusta Townships. One course reinforced concrete. Contract awarded to William M. Moser, Mt. Carmel, Pa., $116,249.45.

Dauphin County, R-339, A-4160, 4161, Lykens Township, Gratz Borough. One course reinforced concrete. Contract awarded to Lincoln Const. Co., Strafford, Pa., $123,600.49.

New Jersey Construction News

Stores and Apartments, Atlantic City, N. J. Architect, Louis Joseph Tonk, Fuller Building, Philadelphia. Owners, Herbert V. Realty Co., Atlantic City, N. J. Brick, 2 stories, 98x80 feet, slag roof, hardwood floors, hot water heat, electric light, metal bulks. Plans in progress.

Apartment House, Atlantic City, N. J. Architect, Louis Joseph Tonk, Fuller Building, Philadelphia. Owner, H. Hoffman, Camden, N. J. Brick, stone, 5 stories, 100x60 feet, slag roof, hardwood floors, hot water heat, electric light, elevators, terra cotta, cast stone. Plans in progress.

Cottage, Ventnor, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, Alexander Fridrich, 1502 Mt. Ephraim avenue, Camden, N. J. Concrete block, stucco, 2 stories, 28x30 feet, tile roof, hardwood floors, hot water heat, electric light. Plans in progress.

Apartment House and Store, Baton Rouge and Ventnor avenues, Ventnor, N. J. Architect, D. W. B. Haining, Guarantee Trust Building, Atlantic City, N. J. Owner, name withheld. Brick, stucco, frame, 3 stories, 34x95 feet, slag roof, pine floors, hot water heat, electric light, tile work. Plans in progress.

Hotel (alts. and add.), 161 South Virginia avenue, Atlantic City. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City. Owner, S. Kaufman, on premises. Fireproof, 1 story add., 160x40 feet, slag roof, hardwoo dfloors, elevators, heating extension, electric light, tile work. Plans in progress.

Residence and Garage, Hightstown, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mayor Thompson, Hightstown, N. J. Stone, 2½ stories, 50x108 feet, 40x25 feet, stonefield slate roof, oak and slate floors, ornamental iron, ornamental plaster, tile and marble, vapor heat, electric light. Architect taking bids due October 29th.

Stores (19), Apartments (22), West Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, B. R. Fox, 1102 Atlantic avenue, Atlantic City, N. J. Hollow tile, frame, stucco, 2 stories, 550x100 feet, slag roof, hardwood floors, hot water heat, electric light, tile, marble, metal skylights, plate glass. Architect ready for bids.

Store and Apartment (add. and alts.), 116 North South Carolina avenue, Atlantic City, N. J. Architect, D. W. B. Haining, Guarantee Trust Building, Atlantic City. Owner, B. Sullivan, on premises. Brick, 2 stories, 20x45 feet, slag roof, pine floors, gas heat, electric light, tile work. Owner will build.

Hospital (add.), Mt. Ephraim and Atlantic avenues, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, West Jersey Homeopathic Hospital, J. Scott, 537 South Second street, Camden, N. J. Brick, steel, 3 stories and basement, 40x130 feet, Barrett roof, cement floors, safety treads, roof ventilators, metal lath, tile and marble. Lowest bidder: Wills-Bill Co., 1706 Sansom street, Philadelphia, $164,461. All bids rejected. Will take new bids in about three weeks.

High School, Merchantville, N. J. Architect, Arnold H. Moses, Camden, N. J. Owners, Board of Education, E. J. Frey, Merchantville, N. J. Brick, stone, 3 stories and basement. Plans in progress.

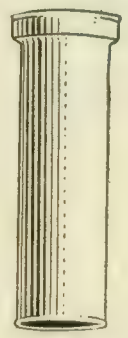
Garage, Mt. Holly, N. J. Architect, H. O. Ziegler, Drexel Building, Philadelphia. Owners, Burlington County Board of Freeholders, Camden, N. J. Brick, 1 story, 126x60 feet, slag roof, cement floors, electric light. Plans in progress. Will be ready for bids in two weeks.

Porch (add.), County Almshouse, New Lisbon, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Burlington County Board of Chosen Freeholders, Camden, N. J. Concrete, cement, brick, carpentry, screens, hardware, 2 stories, 96x20 feet, 1 story, 91x10 feet, tin roof, pine floors. Owners taking bids due October 22nd.

Storage House, Kitchen, Refrigeration, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic Delicatessen Co., 1328 Atlantic avenue, Atlantic City. Fireproof, 2 stories and basement, 43x133 feet, slag roof, concrete floors, elevators, waterproofing and dampproofing, iron stairs, floor hardener, fire doors, steel sash, steam heat, electric light. Architect ready for bids due October 25th.

Residence, Brigantine Beach, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, J. R. Siracusa, care

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of architect. Stucco, frame, structural steel, 2½ stories, 51x42 feet, Spanish tile roof, hardwood floors, electric light, tile work. Architect taking bids.

Fire House, Ventnor, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Ventnor, Ventnor, N. J. Brick, steel, 2 stories, 60x120 feet, slag roof, composition floors, rolled steel sash, electric light. Architect taking bids due November 22nd.

Apartment (add.), 170 South Broad street, Trenton, N. J., $8,000. Architect, private plans. Owner, Samuel Teitz, 742 Breenwood avenue, Trenton, N. J. Brick, 3 stories, 186x105 feet, slag roof, pine floors, heating extension, electric light, general alterations. Permit issued.

Residence, 308 North Twenty-eighth street, Camden, N. J., $3,000. Architect, Joseph W. Todd, Camden, N. J. Owner, Joe Moon, 2820 Mitchell street, Camden, N. J. Block, 1 story, 24x34 feet, slag roof, pine floors, warm air heat, electric light. Permit issued.

Municipal Building, Southwest Corner Maple Shade and Main streets, Maple Shade, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Chester Township, Maple Shade, N. J. All bids rejected.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover ,secretary, Broad Street Bank Building, Trenton, N. J. Improvement, Route 14, Sections 12 and 13, Corbin City Cutoff and Estellville widening, Atlantic and Cape May counties. Lowest bidder: J. G. Corson, Marmora, N. J., $56,706.34.

Highway Work, New Jersey. Owners, State Highway Department, A. Lee Grover, Secretary, Broad Street Bank Building, Trenton, N. J. Route 14, Sec. 15, Mays' Landing to Estellville, Atlantic Co. Excavation, borrow, gravel shoulders, double line reinforced concrete. Deposit $10.00. Certified check 10%. Owners taking bids due Oct. 25th at noon.

Highway Work, New Jersey. Owners, State Highway Department, A. Lee Grover, Secretary, Broad Street Bank Building, Trenton, N. J. Storm water drain on State Highway, Route 1, Cranbury, Middlesex Co., double strength vit. tile or reinforced concrete pipe, manholes, catch basins. Deposit $10.00. Certified check 10%. Owners taking bids due Nov. 1st at noon.

Bridges and Viaducts, Newark, N. J., Sec. 11 and 12, Route 1, Con. 4. Owners, State Highway Commission, A. Lee Grover, Secretary, Broad Street Bank Building, Trenton, N. J. Construction of steel and concrete bridges, foundations and other classes of work described in plans and specifications. Steel bridge, 240 feet long, over Central R. R. of N. J. at Brill's Junction. Concrete viaduct, steel in concrete, 2100 feet long, in City of Newark. Owners taking bids due Nov. 1st at noon. Certified check $75,000. Deposit $50.00 (refunded).

Road Work, Audubon, N. J. Owners, Borough of Audubon, N. J., J. J. Albertson, Engineer, H. K. Lawrence, Clerk, Court House, Audubon, N. J. Construction of Hopkins Ave., Crystal Lake Ave. to King's Highway, 3,000 sq. yds. of concrete. Owners taking bids due Oct. 26 at 8.30 P. M. Certified check required.

Grading of Streets and Sidewalks, Runnemede, N. J. Owners, Borough of Runnemede, Chas. W. Brookfield, Clerk, Runnemede, N. J. Grading strets, grading and construction of sidwalks, curbs, gutters. Certified check 10%. Owners taking bids due Oct. 25th at 8 P. M.

New Jersey Contracts Awarded

Garage and Office, 23rd and Howell Sts., Camden, N. J., $2,000. Architect, private plans. Owners, Pavonia Ice and Coal Co., 23rd and Howell Streets, Camden, N. J. Block, 1 story, garage 31x22 feet, office 12x16 feet, slag roof, cement and pine floors, electric light. Contract awarded Prince Const. Co., 212 N. 38th St., Camden, N. J.

Garages (7), Rear 1112-14-16 Liberty St., Camden, N. J., $2,000. Architect, private plans. Owner, August Klopp, Camden, N. J. Block, 1 story, 7x8x19 feet, slag roof, cement floors. Contract awarded to Chas Lehner, 1024 Thurman St., Camden, N. J.

Apartment and Store, 2317 Federal St., Camden, N. J. $12,000. Architect, Lackey and Hettle, 5 Hudson Ave., Camden, N. J. Owner, Louis Jaffe, on premises. Brick and block, 2 stories, 20x80 feet, slag roof, skylights, plate glass, hot water heat, electric light, tile work. Contract awarded to Wm. G. Mummaw, 301 Morse St., Camden, N. J.

Residences (4), 2031-33-35-37 Fillmore St., Camden, N. J., $12,000. Architect, private plans. Owner, Caroline Boullion, Camden, N. J. Brick, 2 stories, 15x36 feet, slag roof, pine floors, hot air heat. Contract awarded to B. P. Barracliff, Oaklyn, N. J.

Garage, 407-09 Atlantic Avenue, Camden, N. J., $10,000. Architect, C. Harold Allen, Camden, N. J. Owner, Louis Katz, 416 Mechanic St., Camden, N. J. Brick, block, 2 stories, 32x80 feet slag roof, cement floors. Contract awarded to Geo. W. Boyer, 541 Liberty St., Camden, N. J.

Residences (2), 1245-47 Dayton St., Camden, N. J., $10,000. Architect, Harold Allen, Camden, N. J. Owner Nicholas Romaine, 1271 Chase Street, Camden, N. J. Brick, 2 stories, 15x47 feet, slag roof, hot water heat, electric work. Contract awarded to Smith Bros., 604 Federal Street, Camden, N. J.

Psychopathic Building, State Hospital for Insane, Trenton, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, New Jersey State Hospital for Insane, Trenton, N. J. Stone, brick, reinforced concrete, granite, limestone, 3 stories and basement, 97x45 feet, slate roof, linoleum floors, hollow tile, metal window guards, bluestone, integral and membrane waterproofing, ornamental iron, iron stairs, bond, kalamein doors, copper skylights, steel sash, tile, marble and terrazzo work, metal lath. Contract awarded to General Cont. & Const. Co., First National Bank Building, Trenton, N. J. Plumbing to John Black & Son, 134 Prospect avenue, Trenton, N. J. Heating to Piper Brothers, 340 North Broad street, Trenton, N. J.

Nurses' Home and Doctors' Residence, Skillman, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State Village for Epileptics, Skillman, N. J. Brick, steel, 2 stories, slate roof, composition floors, tile work (heating, plumbing and electric separate). Contract awarded to C. J. Smith Const. Co., 202 Academy street, Trenton, N. J.

Store Building, Collingswood, N. J., $40,000. Architect, private plans. Owners, F. F. Woolworth & Co., Wilkes-Barre, Pa. Brick, cue stone, 1 story and basement, 130x30 feet, slag roof, pine floors, steam heat, electric light, metal lath, tile work, ornamental iron. Contract awarded J. L. Fawley, 1615 Spruce street, Philadelphia.

Apartment House, Atlantic City, N. J. Architect, D. W. B. Haining, Guarantee Trust Building, Atlantic City, N. J. Owner, Samuel J. Stern, 628 Atlantic avenue, Atlantic City, N. J. Brick, 3 stories, 20x85 feet, slag roof, electric work, tile work. Contract awarded to S. Dolinsky, 2 North Vermont avenue, Atlantic City, N. J.

Warehouse, Kentucky avenue, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Kensington Carpet Co., Kentucky and Atlantic avenues, Atlantic City, N. J. Semi-fireproof, 4 stories, 33x75 feet, slag roof, concrete floors, electric light, steel sash, slag roof, elevator, fire doors. Contract awarded to S. Dolinsky, 2 North Vermont avenue, Atlantic City, N. J.

Church and Sunday School, Ventnor, N. J. Architect, J. V. Mathis, Guarantee Trust Building, Atlantic City. Owners, Trinity Methodist Episcopal Church, Rev. G. D. Jones, Ventnor, N. J. Stone, 1 story, 60x96 feet, maple floors, electric light. Contract awarded to J. Mathias & Son, Guarantee Trust Bldg., Atlantic City, N. J.

Garage and Repair Shop, 626-28-30 Viola street, Camden, N. J., $6,500. Architect, private plans. Owner, Luciano Palma, 636 Ferry avenue, Camden, N. J. Brick and block, 1 story, 50x80 feet, slag roof, cement floors. Contract awarded to A. D. Stewart, Haddon Heights, N. J.

Miscellaneous Construction News

Residence, Wilmington, Del. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, W. L. Edison, Wilmington, Del. Stone, hollow tile, stucco, 2½ stories, electric light, shingle roof, hardwood floors, tile and marble work. Plans completed.

Residence, Windsor, Conn., $16,000. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owner, Mrs. M. I. Wilcox, Windsor, Conn. Frame, 2½ stories, slate roof, hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded Edward Swanson, Windsor, Conn.

If your sales-talk is keyed to interest men who build it should occupy space every week in the "Guide," the only building news magazine this side of Manhattan Island.

GENERAL INSURANCE | SMITH-AUSTERMUHL CO. 5th and Market Streets, Camden, N. J. BELL PHONE, CAMDEN 3210 KEYSTONE, CAMDEN 3147 | SURETY BONDS

(Continued from page 664)

frain from figuring as low a cost as he might if he knew positively he would get an even break on all differences that might arise.

Ninth: *Lack of Time to Prepare Bids.* The engineers of Texas generally allow plenty of time for the constructor to prepare an intelligent estimate and proposal. However, many architects do not realize the importance of this feature. It is common practice in some sections for an architect to send in a set of plans for a $75,000 job on Monday, make the contractor return the plans on Thursday, and have the proposal in by Saturday of the same week.

This tends to produce wild bids, both high and low, and frequently causes general dissatisfaction between owner and architect, and architect and contractor, which would all have been eliminated had all bidders had ample time to prepare their proposals.

Estimating by guess will, by the law of averages, lead to failure sooner or later. One important factor in securing low bids from reputable contractors is to give them plenty of time in which to prepare their estimates of cost. In this connection the engineer should remember that in order for the constructor to do economical work he often must bid upon and construct more than one job at a time, and thus make allowances for this fact.

Tenth: *Complete Plans and Specifications.* Clear and complete plans and specifications invariably cause an estimator to figure close and conversely. Plans that are ambiguous and contradictory cause him to increase his unit prices or allow abnormal amount for contingencies. Especially is this true if he has reason to think the engineer or architect will insist upon the more costly interpretation of doubtful points.

The following are some extracts from actual specifications for work on which I have prepared estimates of cost, and illustrate one prolific source of grief to the estimator:

1. "The fine and coarse aggregate shall not be piled so near each other that the edges will overlap. Aggregations shall be preferably stored on platforms, so that the material in the bottom of the pile will not become mixed with dirt. Crusher run stone, bank run gravel, or mixtures of fine and coarse aggregate prepared before delivery on the work shall not be used."

The above was written by a corporate member of this society and was the only reference regarding concrete aggregates made in the specifications for a $30,000 job. Nevertheless, over one-third of the sand and crushed stone from sources heretofore acceptable by this engineer was condemned as not meeting the specifications. It was disclosed that the stenographer omitted one whole paragraph, amounting to more than a page, when the specifications were copied, and that it was the engineer's intention to specify sand and stone for this job of a character different than he usually required. But how was the bidder to know that from the specifications? Needless to say that both the contractors and material dealers lost money on this job.

2. "Contractor will frame all roof and wood ceilings joists of material of dimensions and sizes as marked on details, all to be No. 1 lumber, free from knots, defects and imperfections that will tend to weaken its strength and durability. All to be securely and well fastened into place, securely and well nailed, using a sufficient number of nails to carry the stress to be imposed upon the different members. Architects are to be the judges of the security of this construction.

"Framing of all lumber portions of the building must be done in a first class manner, according to the best common practice and this best common practice to be passed upon by the architects as to its fitness."

No sizes of lumber were given on details. This was taken from an architect's specifications for two school buildings totaling $225,000.

3. "The brown coat throughout shall be of plaster and clean, coarse, sharp, approved sand, in proportions of one sack of plaster to six ordinary size pails of sand. It shall be worked with a six or eight-foot straightedge, etc. . . ."

Inquiry disclosed the fact that stores sell pails in six, eight, ten and twelve quart capacity, and that it is hard to determine what was an ordinary sized pail. This is from specifications for plaster work on a series of public buildings amounting to over $1,000,000. This may help to account for the fact that the plaster sub-contractors in that vicinity have the reputation for using an excessive amount of sand in their plaster.

4. "All concrete surfaces shall be reasonably true and even, free from pockets, excessive depressions or projections. Unless otherwise specified, the forms of all vertical surfaces that will not eventually be covered with earth (and of such other surfaces as may be indicated by the engineer) shall be removed as soon as the safety of the work will permit (usually in not less than 24, nor more than 48 hours) and the whole surface then rubbed with a wooden float and clean water until form marks have been removed, leaving the surface plane, smooth and uniform. In addition to this float treatment, the *exposed* surfaces of concrete walls shall be rubbed off with a carborundum float in a thin grout composed of water and neat portland cement."

The above is from specifications for a large job, principally consisting of concrete tanks and reservoirs, and inquiry as to exactly what surfaces were "exposed" and to be finished in the above manner, brought the following from the engineer:

"The correct method of finishing all *surfaced* inside walls is with the float and later carborundum float, since this is exposed surface. All outside finish, excepting that which is to be covered over with earth, so as to make the job in all respects neat and workmanlike in appearance."

Now the above is quite plain, after giving the matter the proper study, but would it not only be human if the estimator should be led astray in determining just what is required to be done, and could it not have been stated in a much more simple manner?

5. "The omission from the contract documents of express references to any labor or materials reasonably to be inferred therefrom and necessary for the proper execution of the work, shall not relieve the contractor from furnishing them of a kind in keeping with the general character of the work."

This is from specifications for two buildings of expensive construction amounting to $100,000. Is it unreasonable to infer from this paragraph that the writer of these specifications is acknowledging beforehand his own incompetence or laziness? In cases of this kind, the bidder must either be as good a designer as the architect, or else be lucky to be able to land the job on open competition and yet make a profit on his work.

The following is typical of a phrase frequently found in specifications:

"For all delays and extra work occasioned by such mistakes, contradictions and omissions, real or imaginary, the contractor shall be considered responsible for not having them explained or corrected beforehand."

6. "The general contractor is not to include the cost of the other contracts, as here listed: Plumbing, heating, electric wiring, electric fixtures and finish hardware."

In the same specifications under the heading of "Finish Hardware" it states, "the contractor shall allow the sum of $1500 for all finish hardware."

Under the heading of "Terra Cotta," it also states:

"It will be noted that the general contractor will include the cost of setting the terra cotta only, and allowance for cost of terra cotta f. o. b. cars—will be furnished him by the owner and included."

The above was from specifications for a three story, modern store building of

considerable area, and it happened to be one of those cases where bids were desired in something like a week's time after the plans were ready for use. The architect for this job is a fine fellow personally, but has the reputation among contractors of not "standing hitched" on his own decisions, especially when the owner has a whim or takes a notion to change his mind.

7. On the plans for the $275,000 worth of buildings the only reference to depths of footings below the original surface of the ground were as follows:

"Footings to go to solid rock"—and in another place—"footings to go three feet six inches deep, or to solid rock."

No original ground line was shown on the plans, but the finished grade is shown with notation, "future grade to be established by the architect."

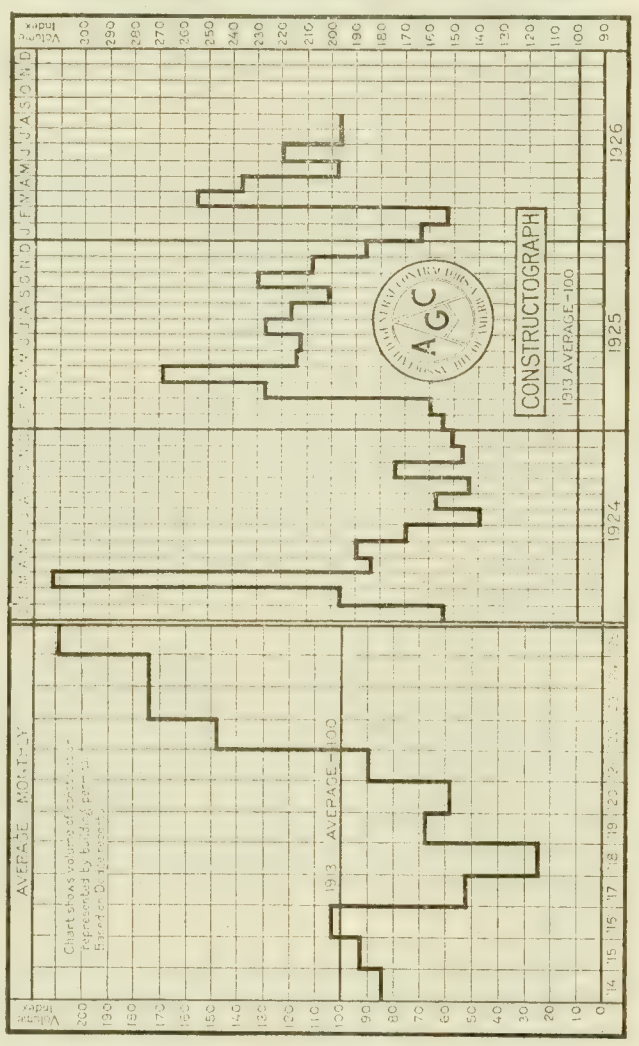
In this case it was generally known that solid rock varied from one to ten feet below the original surface of the ground. Whether it was in the mind of the architect for the footings to go to solid rock as a maximum depth and to a depth of three feet, six inches, as a minimum, or whether they were to go to solid rock, provided same was not over three feet, six inches deep, or to the latter depth as a maximum if solid rock was not found at that depth, is the problem to be solved.

Now in conclusion, what is it all about? The engineer may say that he cannot be bothered with these details that affect the cost of his projects, that most contractors do not see them and will bid the same regardless. It is true that most contractors overlook some of them, and some contractors overlook all of them, but more and more the operation of the law of the survival of the fittest is coming to apply to the construction industry, the second largest industry in the country. With competition among builders becoming keener each year, those who do not analyze the requirements of the plans and specifications of proposed work carefully and thoroughly, are sure to fall, either from lack of work or from taking jobs at a price which precludes a fair profit. In the long run the owner pays the cost, either directly or indirectly.

Strong assurance that 1926 will see all previous records for construction activities eclipsed has presented itself. Not only is the volume of building operations for the first nine months 3 per cent. greater than the volume registered during the corresponding period of 1925, the high year to date, but a vast amount of contracts have recently been awarded and will soon be carried out to make the total for this year reach an astounding figure, according to statistics compiled by the Associated General Contractors of America.

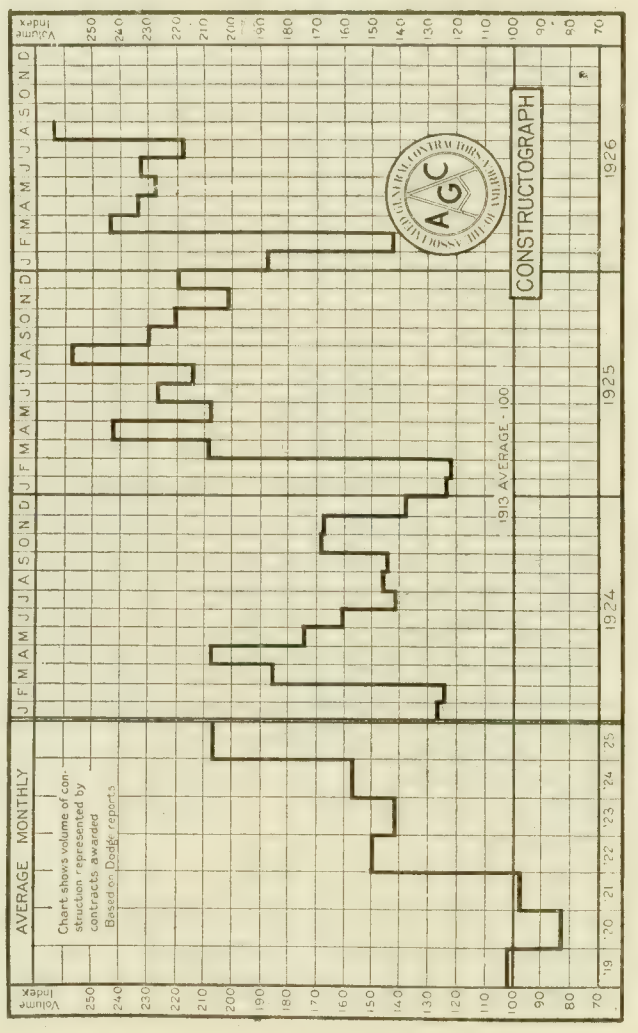
The volume of building contracts awarded during August was the greatest registered in any month on record, exceeding the previous high mark, set in

Building Permits in 20 Cities



August, 1925, by more than 2 per cent. The total volume of contracts awarded during the first eight months of 1926 exceeded by 10 per cent. the corresponding figure for 1925.

Building Contracts in 27 Eastern States



This vast activity in the awarding of contracts, backed up by the actual fact that construction operations are keeping well ahead of the record-breaking pace set last year, is forcing close students of the situation to the conclusion that more money will be spent this year for construction than ever before in the history of the country within a similar space of time.

The volume of awards during August reached index number 264 on a scale having as its basis the average for 1913. It is interesting to note that the index figure for August, 1924, was only 169.

TO— OR NOT TO—

Hamlet's famous remark has probably been paraphrased as much as any other quotation ever made. And perhaps it has been paraphrased to read "To build—or not to build" as often as for any other thing.

Regardless of conditions, there is one safe rule to use anent building, and that is this: "Build whatever you need, *when* you need it!" If you need a home to improve your living conditions, to better the health of your family, or for any other good reason, the time to build that home is when that need arises. Similarly a good time to build a home is before renting has become a habit. Newly married couples should build homes, so that the common interest may draw them closer together. Home owners rarely patronize the divorce courts.

And to those who have been contemplating building, but for some reason or other are delaying, let us say that *now is the best time to build.* We base that assertion upon the facts that from October 1st, 1925, to April 1st, 1926, either excessively wet or very cold weather delayed numerous building projects. In May, labor troubles further delayed building projects, and June, July and August have not seen a resumption to normal. Added to that, building material prices are at the lowest levels that have obtained in years. Common brick retail at $12.00 per thousand—a price that equals the Chicago common brick price.

Inasmuch as price comparers have used the Chicago common brick quotations for years, and in view of the fact that Chicago has the greatest production of common brick in America, it is worthy of note that Cleveland brick makers, with a pitifully small market as compared to Chicago, have been able to make the price so low.

Common brick are used in almost every sort of building. Without them, the building industry would halt. Hence, when the universal material is low priced, it must follow that other materials are equally low in cost.

Hollow tile is now priced very low, and cement is at an unusually low level. Sand has been low for years. Lumber

prices can't fluctuate a great deal, for certain fixed charges, such as freight, do not vary, and lumber is taking longer hauls now than ever before.

With prices low and stabilized, and with most trades anxious to work, it seems to us that *now* is the best time to build that home of your own.

We make this statement in spite of the fact that the painters and glaziers are still deadlocked in an effort to force a wage increase and a 5-day week upon an unwilling public which has not had a pay increase, and works 6 and even 7 days a week to make a living.

The other trades—particularly the bricklayers—seem to be more interested in gaining the time they lost due to bad weather last winter, and in maintaining existing wage scales, than they are in gouging still deeper into the public purse.

In other words, some sanity and reason is percolating into certain trades—a condition that is a sure indication that NOW is the time to build.

—*Building Industry.*

EYESORES ARE VITAL ISSUES IN EVERY AFFLICTED COMMUNITY

Every village, town and city in the United States has inherited its eyesores from its immediate ancestors. No blame is attached to the heirs for accepting their heritage.

But considerable blame may be attached to them if, through indifference or inertia, they permit a continuance of conditions which are disastrous to genuine community progress.

If a stranger were told in glowing terms of the headway made in American building and then were shunted on a journey over any railroad in any direction he would, in a short time, consider himself the victim of some sardonic jest.

For, at nearly every approach to a community and at nearly every station stop his eyes would be assaulted with unsightly buildings, ramshackle tenements, litters of rubbish, choked streets, the debris of fires long since extinguished and a whole panorama of riffraff—the sweepings of community unconcern and easy-going apathy.

And, as a rule, blemishes of like nature would be found in other neighborhoods throughout nearly every commonwealth in the country.

NO PLACE IN AMERICA CAN AFFORD THAT KIND OF ADVERTISING. THE LOSS IT CAUSES TO EVERY COMMUNITY IT AFFLICTS IS BEYOND COMPUTATION.

What does it avail the Chambers of Commerce, the better business movements and kindred organizations to talk and write glowingly of the beauty of their town or city and then confront the alighting prospective citizen or investor with the precise opposite?

Why prate of civic virtues and industrial opportunities while the value of real estate sags and insurance risks mount to a point where the insurance companies withdraw?

True, a first class fire would probably provide a quick solution to a vexing problem if any guarantee could be made that the fire would be confined to the ugly area. But fires starting in such places usually end as conflagrations—the fine is wiped out with the coarse.

Why expect much progress from social service organizations when the real root of evil, crime and immorality lies in physical environment, in repulsive surroundings, in BUILDINGS which have all the charms of a sewer and none of its utilities?

To walk all around a vital issue and affect blindness to its existence smacks of pettifogging. Any policy of strangling truths will have little positive result. The people must be shocked into new attention to conditions of which long familiarity has made them contemptuous.

It appears to us that these conditions offer the building men of America a real opportunity to contribute to the cause of civic betterment and to speed progress in their own field of endeavor.

Property owners, real estate men, loan associations, builders, contractors and architects all have a stake at interest. The initiative might well be said to lie with them.

One method in starting a movement of this kind would be to show this editorial to the editor of the local newspaper whose previous work had proved him to be one who has labored for his readers always and for those who would exploit those readers, never. For rest assured that politics, good and bad, will show an active interest.

Such an editor's sense of news values, his interest in circulation and his trained imagination will leap ahead and grasp the full significance of this idea.

A series of articles photographically illustrated; testimony of conditions from fire insurance companies and others; appeals for close co-operation on the part of the Chamber of Commerce, women's organizations and other civic bodies; competitions for designs for improving a given locality; estimates showing costs of improvements—these are some of the essential factors in a campaign of this character.

The object is to arouse public opinion and awaken civic pride and then to focus these on whoever or whatever is responsible for present conditions. It will not be hard to prove that the people, individually and collectively, directly and indirectly, will profit immensely with the reformation.

TO ANY LONGER BEAR THE BURDEN OF "EYESORES" IN AMERICA IS WANTON WASTE AND SHEER NONSENSE.—*Building Age and National Builder.*

On Thursday, October 21st, 1926, Craftsmanship Certificates of the Philadelphia Building Congress will be awarded at the Poor Richard Club, 1319 Locust Street. This occasion will mark the second annual presentation of Certificates to men selected as Guildsmen, Craftsmen and Co-operating Master Craftsmen by the Committee on Awards of the Philadelphia Building Congress.

There will be present the President of the American Institute of Architects, the President of the Philadelphia Chapter of the A. I. A., the President of the Philadelphia Builders' Exchange and Employers' Association, the President of the Philadelphia Building Chapter of the Associated Pennsylvania Constructors, the President of the T-Square Club and other distinguished guests.

Assembly will begin at 5.30 P. M., and dinner will be served at 6.00 P. M., during the course of which the speakers will be introduced by D. Knickerbacker Boyd, President of the Philadelphia Building Congress. The presentation of awards will be begun at 7.45 P. M. by John I. Bright, Chairman of the Committee.

WATCH THE THERMOMETER

Mild autumn weather can build up a sense of false security in the mind of a concrete contractor that may easily prove his undoing. Without warning, the mercury can—and often does—drop sharply. Then the contractor who has freshly placed concrete is in difficulty unless his tarpaulins are in place and his salamanders are ready to fire.

Freshly placed concrete hardens more and more slowly as the temperature approaches the freezing point and there it is damaged. Be on guard when the thermometer may read in the fifties, forties or thirties.

There is not a business one can think of, which is not full of little temples where one can curse or pray. Every business that one knows has its host of light in it, fighting against its host of darkness; one set of men conducting the business as if they and the public were engaged in a sort of mutual enthusiasm and daily service, with permanent success as the goal; and another set of men whose success is ruining the business to which they belong, and the public besides—and themselves.

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
Architectural Cast Cut Stone Co.....Westmont, N. J.

AREA GRATINGS
Irving Iron Works.....1015 Chestnut St., Phila.

ARTESIAN WELLS
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.
The Atlas Blue Print Co.....34 S. 16th St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS
Blue Print Shop .....1520 Sansom St., Phila.
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.
The Atlas Blue Print Co.....34 S. 16th St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER
Blue Print Shop .....1520 Sansom St., Phila.
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS
Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
I. M. & C. M. Siner.Church and Tacony Sts., Phila.
Excelsior Brick and Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving)
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS
Mitchell Bros. .....2125 Race St., Phila.
Joseph Rotornado .....4740 Milnor St.. Phila.

BUILDERS' HARDWARE
Devitt, Paul J. .....1101 S. 2nd St., Phila.

BUILDERS' SUPPLIES
Service Supply Corporation,
20th and Venango Sts., Phila.
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK
Muskey Mfg. Co...Columbia and Howard St., Phila.

CAST STONE
Architectural Cast Cut Stone Co.....Westmont, N. J.

CEMENT
The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK
D'Lauro, John .....7732 Ardleigh St., Phila.
Massiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE WORK
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation..20th and Venango Sts.

CORK FLOORING
Livezey, John R..
Glenwood Ave., w. of 22nd St., Phila.
Selby Battersby & Co. .....810 Noble St., Phila.

CURTIS WOODWORK
Gillingham Co.....Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS
Building News Pub. Co.....1530 Chestnut St., Phila.

DAMPPROOFING
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger.....829 N. 3rd St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Master Builders Co. .....Otis Bldg., Phila.
Truscon Laboratories .....1505 Race St., Phila.

DOOR BEDS
Murphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS
Robbins. Chas. H., Co.....1729 Sansom St., Phila.
The Atlas Blue Print Co.....34 S. 16th St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila

FENCES
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Potts, Horace T., & Co...Erie Ave. & "D" St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.

FIREPROOFING
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES
H. E. Lingo & Son .....Camden, N. J.

FLOOR HARDENER
Anti-Hydro Waterproofing Co., 24th and Parkway
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Master Builders Co. .....Otis Bldg., Phila.
Truscon Laboratories .....1505 Race St., Phila.

FLOORING (Rubber Tile)
Hamilton Rubber Mfg. Co...2313 Walnut St., Phila.
Selby Battersby & Co.....810 Noble St., Phila.

FLOOR PLATES
Wood, Alan, Iron & Steel Co...Widener Bldg., Phila.

FLUE LINING
Clausen, Wm. H. ....27th and Diamond Sts., Phila.

FURNACES AND RANGES
Fleck Bros. .....44 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GARAGE HEATERS
Fleck Bros. Co. .....50 N. 5th St., Phila.

GAS RANGES
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelhia Gas Range Co. ...1026 Arch St., Phila.
Thomson. Wm., Inc. .....64 N. 2nd St., Phila.

GRANITE
Architectural Cast Cut Stone Co.....Westmont, N. J.

HEATING CONTRACTORS
Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....7038 Gray's Ave., Phila.

HEATING BOILERS
Fleck Bros. Co. .....50 N. 5th St., Phila.

HOLLOW TILE
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway & Co...Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

HOT WATER GENERATORS
Edwin Elliott Co. .....560 N. 16th St., Phila.

INSURANCE
Insurance Co. of North America.....1600 Arch St.
Philadelphia Fire & Marine Ins. Co.,
1711 Chestnut St., Phila.
Smith-Austermuhl Co. .....Camden, N. J.

IRON AND STEEL BARS AND PLATES
Potts, Horace T. & Co....Erie Ave. and D St., Phila.
Wood, Alan, Iron & Steel Co...Widener Bldg., Phila.

IRON AND STEEL (Structural and Ornamental)
DeCou, Richard Co.....11th and Noble Sts., Phila.
Lederle, Robt. B., & Co...Witherspoon Bldg., Phila.
Livezey, Thos. H...American and Luzerne Sts., Phila.
Montgomery Iron & Steel Co..2500 Duncan St., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
Pettit, Frank, Orna. Iron Works.
1505 N. Mascher St., Phila.
Reisbord, Wolf .....4437-43 Ludlow St., Phila.
Whartenby, Harry A. ....1823 Brandywine St., Phila.

KITCHEN CABINETS
Philadelphia Gas Range Co. ....1026 Arch St., Phila.

LEVELS
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

LIGHTING FIXTURES
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LIGHT IRON CONSTRUCTION
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

LINOTILE
Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

LUMBER
Gillingham Co. ..Norris and Richmond Sts., Phila.
Ketcham, Howard.....3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

MARBLE AND MOSAIC
Belfi Bros. Co. .....1923 Market St.. Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. .....433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

MASON BUILDER
D'Lauro, John .....7732 Ardleigh St., Phila.
Mercaldo, Vincent..411 Locust Ave., Germantown, Pa.

METAL LATH
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
John S. Raynor .....2300 E. Lehigh Ave., Phila.

METERS
Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

MILLWORK
Gillingham Co. ..Norris and Richmond Sts., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

PANELS (Wood)
H. C. L. Miller .....1101 N. Front St., Phila.

PAVING BRICKS
Ketcham, O. W. .....121 N. 18th St., Phila.

PHOTOSTATS
Weber, F., Co. .....125 S. 12th St., Phila.

PLASTERER
Joseph Rotornado .....4740 Milnor St., Phila.
Joseph Sterling .....Camden, N. J.

PLASTERERS' SAFETY CLIPS
John S. Raynor .....2300 E. Lehigh Ave., Phila.

PLUMBING FIXTURES
Fleck Bros. Co. .....50 N. 5th St., Phila.

RADIATOR CABINETS
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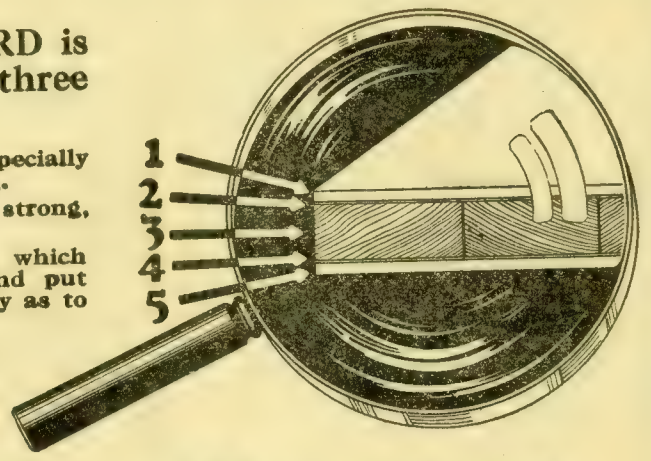
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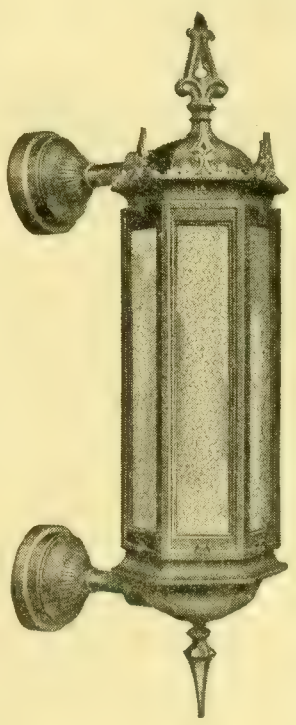
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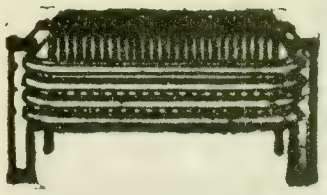
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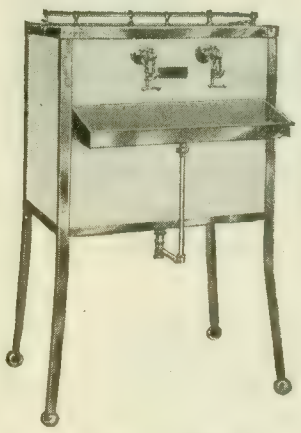


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 43

PHILADELPHIA
October 27, 1926

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As The Editor Sees It

FIVE-DAY WEEK A MENACE; WOULD INCREASE LIVING, LOWER PRODUCTION AND GIVE EUROPE BIG ADVANTAGE

Presidents of Numerous Large Establishments Employing Thousands Upon Thousands of Workers Believe Henry Ford's Scheme May Be All Right to Meet Sales Conditions But is Too Impracticable and Dangerous For All Industries

Henry Ford's five-day-week scheme may be all right to meet certain conditions in his business, but it can never be adopted by the industries of the country generally because:

1. It would increase the cost of living.

2. It would curtail production to an alarming extent and make us more vulnerable to the onslaughts of Europe, now working as hard as she can to overcome our economic lead.

3. It would be against the best interests of the men themselves who want to work and advance.

4. It would create a craving for additional luxuries to occupy the additional time.

5. It could not be applied to the industries generally.

These conclusions are drawn by numerous manufacturers in all parts of the country and were made public by the National Association of Manufacturers which had been asked for a widespread expression on the subject of Henry Ford's latest move. Requests for an expression of opinion were sent to about fifty leading manufacturers, members of the Association, in all parts of the country and the responses came from organizations employing thousands upon thousands of workers. The opinions follow:

E. G. Scott, president, Smith and Scott Tobacco Company, Paducah, Ky.:

A five-day-week schedule, such as has been inaugurated in the plant of Henry Ford, is a legitimate aspiration for every American worker. But I cannot see how it is possible for such a measure to benefit the American worker under present conditions, for we are without the normal economic balance between this country and the rest of the world and have been for more than a decade.

Workers in Europe are pressing hard toward the rehabiliation of their economic situation while in America during that period business and industry have seen substantial prosperity.

The effect of the Five-Day-Week proposal would be to increase wages by something like 10 *per cent. And that circumstance would make American products still more vulnerable to the economic designs of Europe. In my judgment the effect of such a measure would be rather a loss to American workers at this time than a gain because further increase in production costs of American made goods will have the effect of heading workers toward an actual three or four-day week, or fixed part-time schedule through further limitation of the markets for the products of American labor.*

James Carey Martien, Lexington Bldg., Baltimore, Md.:

I doubt if it is feasible in many lines to have a man work forty-eight hours in five days and get the same results as are now gotten in forty-eight hours spread over six days.

Therefore, while admitting increased efficiency in certain lines of manufacturing, I believe the needs of the world today for increased production justify the thought that there should be no decrease

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in the number of hours and this, too, because of its effect upon the individual as well as upon the industry as a whole.

Mankind does not thrive on holidays. Idle hours breed michief. The days are too short for the worthwhile men of the world to accomplish the tasks which they set themselves. No man has ever attained success in industry, in science, or in any other worthwhile activity of life by limiting his hours of labor.

Paul T. Norton, president, Case Crane & Kilbourne Jacobs Company, engineering products, Columbus, O.:

I am convinced that progress results from the development of sound ideas through the co-operation of a reasonably large number of persons, and I think you will find that only those changes have a marked effect on industry as a whole which can be adapted to the activities of a large number of individual plants and that when important changes do occur they nearly always result from experiments which have been tested out and found satisfactory in a number of smaller plants, even though some individual like Henry Ford may secure considerable advertising from the spectacular way in which he adopts same.

The question as to whether the American people can enjoy a shorter period of work each week, without curtailing the present steady improvement in the standard of living, will not be determined by the procedure of any single individual but by the earnest desire of all persons interested in industry to steadily reduce the large number of non-producing members of society who, while successful themselves, are naturally a burden on and a hindrance to the advancement of those workmen whose accomplishments are for the benefit, comfort and welfare of the people as a whole. By eliminating waste efforts it is possible to advance the standard of living of all the people to a point where occupation furnishes the real pleasure and any form of idleness is considered a calamity.

Charles Cheney, president, Cheney Brothers, silks, South Manchester, Conn.:

The American Federation of Labor have now made the five-day work week a slogan and announced that its establishment will be part of their policy.

I do not know just what has induced Mr. Ford to adopt this plan, but I have a surmise that he finds he can make in five days all that his market can absorb, in view of the increased output of cars made by other manufacturers which are of a grade to appeal to his former clientele.

The object of the American Federation of Labor is obvious. It is simply one more manifestation of the false philosophy which has guided them from the beginning, which is that restricted output increases the demand for labor and makes for increased compensation of the employe.

A rather curious new argument has been introduced into the discussion of this question. It is to the effect that inasmuch as the producers are also the consumers, they must be given opportunity and time to use and consume their own products; in other words, if those employed in making automobiles have one day a week off in which to use them, the demand for automobiles will increase. This may be true provided that the compensation for the five days is sufficient for the week's needs and for the setting aside of a surplus to be expended in an increased purchase of commodities. Obviously such a result can only be obtained when the output of industry and the profits of industry are large enough to permit of the disbursement of surplus funds arising out of a decreased output.

I do not think that the argument that industry will produce as much or more in five days of eight hours each as it does now in five and one-half or six days, can be taken seriously by a sober-minded man.

I think that it is very unsafe to establish basic principles regulating the operation of industry upon a short experience in a time of unusual prosperity. Certainly as the world becomes better balanced and as the equilibrium between America and Europe is re-established, we shall get back to a basis of competition in which it will be most difficult to maintain present margins. When the nations of the world settle down to a real steady competitive contest, that one which produces most efficiently will hold the leadership. *America has a great handicap at present over the rest of the world, but it can easily sacrifice that handicap by letting down upon its productive efficiency.*

To my mind nothing could be more unsound than the policy of the American Federation of Labor in seeking to reduce output. That philosophy strikes at the very root of America's prosperity. The rest of the world is now eagerly

(Continued on Page 690)

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Residences, Number Undecided, Morris Park at 66th Street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut St., Philadelphia. Owner, McWilliams and Maloney, 539 S. Fifty-second Street, Philadelphia. Stone, brick, stucco, 2 stories, 20x32 feet, 16x45 feet, slag and slate roof, hardwood floors, central heat, electric light tile work. Plans in progress.

Apartment House and Garage, 1719 Wallace St., Philadelphia. Architect, R. R. Neely, 2301 Spruce St., Philadelphia. Owner, J. Mustara, 5007 Chestnut St., Philadelphia. Brick, 3 stories, 20x80 feet, (6 efficiency apartments), slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect will be ready for general bids in a few days.

Stores (4), Apartments (5), Seventy-ninth and West Chester Road, Philadelphia. Architect, David Supowitz, 929 Chestnut St., Philadelphia. Owner, Sol Hopkins, northeast corner Sixty-second and Market Sts., Philadelphia. Brick, 2 stories, 17x75 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, plate glass. Owner taking sub-bids.

Residences (40), Markland, north of Lycoming St., Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut Street, Philadelphia. Owner, Alfred Lechler, 4128 N Street, Philadelphia. Brick, 2 stories, (21) 15x36 feet, with basement garages, (19) 16½x28 feet, slag roof, asbestos and creosoted shingle roof, pine and hardwood floors, cement work, metal lath, tile work hot water heat, electric light. Owner taking sub-bids.

Sub-Station, Southwest Corner Park and Cumberland streets, Philadelphia. Architect, private plans. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Brick, steel ,concrete, 1 story. Plans about completed.

Home for Incurables, Conshohocken and Belmont avenues, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Philadelphia Home for Incurables, Forty-eighth and Woodland avenue, Mrs. C. Milne, 6611 Wissahickon avenue, Philadelphia. Ready for bids in two weeks.

Store (alts.), 1129 Chestnut street, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Elias Jacobs, on premises. Copper bulks, walnut backing, plate glass, tile an dmarble work, metal ceiling. Architect ready for bids.

Residences (100), Dorrell street, between Sixty-seventh and Sixty-eighth streets, Philadelphia. Architect, private plans. Owners, Gillingham & Hynes, Sixty-sixth and Dicks avenue, Philadelphia. Brick, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Plans in progress. Work to start in the spring.

Residences (number not decided), Fifth to Seventh, Godfrey avenue, Philadelphia. Architect, private plans. Owners, W. Fischer's Sons, Inc., Broad and York road, Philadelphia. Brick, 2 stories and basement, 16x40 reet, slag roof, oak and pine floors, hot water heat, electric light. Work contemplated. Will mature in the spring.

Residences (62), Sixty-sixth avenue and Bouvier street, Philadelphia. Architect, private plans. Owner, George H. McCracken, 2528 West Lehigh avenue, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Owner will build early in spring.

Residences (100), Fairhill and Johnson streets, Philadelphia. Architect, private plans. Owner, William L. Jones, 2860 South Fifteenth street, Philadelphia. Brick, 2 stories and basement, 16x40 feet, slag roof, oak and pine floors, hot water heat, electric light. Plans in progress. Owner ready for bids early in spring.

Lumber Shed, Nineteenth and Somerset streets, Philadelphia. Architect, private plans. Owners, George M. Steele Lumber Co., on premises. Galvanized iron, 1 story, 288x72 feet, composition roof, plumbing, galvanized iron skylights. J. N. Gill Const. Co., City Center Building, Philadelphia, taking sub-bids.

Bank Building and Apartment Building, Seventeenth and Tioga streets, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Tioga Trust Co., Seventeenth and Tioga streets, Philadelphia. Brick, limestone, 9 stories, 50x150 feet, built-up roof, hardwood and cement floors, elevators, tile and marble work, steam heat, electric light. Architect taking bids due November 6th.

Apartment House, 3514 Spring Garden street, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, Abe Collins, care of architect. Brick, 3 stories, 100x112 feet (48 apartments), slag roof, hardwood floors, steam heat, electric light, tile work, steel sash, gas ranges, refrigerators, two incinerators. Plans completed. Owner will build and is taking sub-bids.

Stores (alts.), 108 West Queen Lane, Germantown, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. Architect taking bids due October 28th.

House of Correction, Holmesburg, Pa. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Welfare, 592 City Hall, Philadelphia. Brick, steel (plumbing, electric and heating separate), slag, composition roof, cement floors, roof ventilators, shoring, Par-Lock waterproofing, metal lath, tile, marble and terrazzo work, hollow metal sash, rolled steel skylights, bond, iron stairs, ornamental iron work, architectural terra cotta, granolithic floors, cut cast stone, bluestone, membrane waterproofing, alberne stone, steel lockers, metal medicine cabinets, ornamental plaster. Deposit, $50; refund, $30. Dining room and kitchen building, 1 story and basement, 173x52 feet, connecting corridor, 28x47 feet, kitchen, 43x110 feet, administration building, 2 stories and basement, 140x44 feet, wing F, 1 story, 316x48 feet, boiler house, 1 story, 46x94 feet, corridor, 67x27 feet, 1 story, kitchen equipment and refrigerators. Owners taking bids due October 30th at noon.

Restaurant Building, 126-30 South Fourth street, Philadelphia. Architect, Ralph Bencker, Bellvue Court Building, Philadelphia. Owners, Horn & Hardart Co., 214 South Tenth street, Philadelphia. Reinforced concrete, brick, granite, limestone, steel, 2 stories and basement, 60x42 feet, slag roof, cement floors, hollow tile, metal lath, tile, marble and terrazzo work, hollow metal sash, rolled steel skylights, tin-clad, kalamein and hollow metal doors, metal bulks, ornamental iron work, integral waterproofinfig, dampproofing, underpinning, caulking, metal toilet partitions, bronze work, Kato stone. Architect taking bids due October 30th.

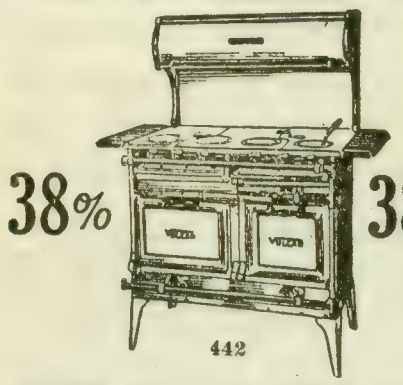
School, Allen lane and Rural lane, Mt. Airy, Pa. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, cut stone, steel, reinforced concrete, 3 stories and basement, 136x114 feet (plumbing, heating, electric separate bids), composition and promenade tile roof, oak, pine, maple and cement floors, hollow tile, safety treads, roof ventilators, metal weather strip, metal lath, tile, marble and terrazzo work, rolled steel sash and skylights, steel doors, hollow metal doors, bond, floor hardener, iron stairs, ornamental iron work, membrane waterproofing, Parlock or equal dampproofing, granite, concrete block, area gratings, steel partitions. Owners taking bids due November 1st.

School (add.), Southwest Corner Gaul and East Berks streets, Philadelphia. Architect, Peter Getz, Victory Building, Philadelphia. Owners, Holy Name of Jesus Roman Catholic Church, Rev. G. R. Scholz, on premises. Stone, brick, cut stone, 3 stories and base-

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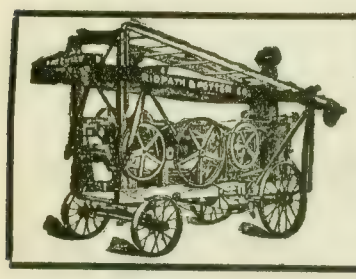
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ment, 42x51 feet, slag roof, composition, cement and maple floors, vapor heat, electric light, metal lath, safety treads, galvanized iron skylights, metal ceiling, iron stairs, ornamental iron work, metal toilet partition. Owners taking bids due October 28th.

Sub-Station (alts.), 1127 Arch street, Philadelphia. Architect, S. T. Wagner, Twelfth and Market streets, Philadelphia. Owners, Philadelphia & Reading Railroad Co., Twelfth and Market streets, Philadelphia. Brick, concrete, cement floors, plumbing, painting and glazing, hollow metal doors, asphalt mastic waterproofing. Owners taking bids due October 28th.

Sales and Service Station, Northwest Corner Fifty-fifth and Walnut streets, Philadelphia. Architect, David Supowitz, 929 Chestnut street, Philadelphia. Owners, William Burstein & Bro. (S. Jacobson), Sixty-first and Walnut streets, Philadelphia. Brick, steel, 2 stories and basement, 25x75 feet. Owners taking bids.

Mill Building (alts. and add.), A and Courtland streets, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owners, Concordia Silk Mills, on premises. Brick and steel. Architect taking bids.

Residences (18), Hunting Park avenue, East of O street, $109,500. Architect, private plans. Owner, I. Litman, Hunting Park and Lycoming avenues, Philadelphia. Brick, 2 stories, 16x26 feet, 12x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (10), North side Brunswick avenue, West of Eightieth street, $40,000. Architect, private plans. Owner, J .L. Turnbo, 123 South Forty-first street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residence, Northwest Corner Grant and Cowden streets, Philadelphia, $6,000. Architect, private plans. Owner, William Grossmiller, 2081 East Ann street, Philadelphia. Brick, 2 stories, 24x40 feet, hot water heat, electric light, hardwood and pine floors. Permit issued.

Residences (2), West side Lawndale avenue, North of St. Vincent street, $12,000. Architect, private plans. Owner, Charles Freeman, 7323 Claridge street, Philadelphia. Brick, 2 stories, 14x48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (36), North side Spencer street, West of Second street, $185,000. Architect, private plans. Owners, James F. Nolen & Sons, 64 Church lane, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences and Stores (2), 7139-41 Germantown avenue, Philadelphia, $20,000. Architect, private plans. Owner, A. S. Tourison, Jr., 7014 Boyer street, Philadelphia. Brick, 2 stories, 20x52 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Office and Apartments (add .and alts.), 319 South Eighteenth street, Philadelphia, $4,000. Architect, private plans. Owner, Dr. N. W. Winkleman, on premises. Brick, 3 stories add., 15x11 feet, general alterations. Permit issued.

Residences (26), South side Tudor street, East of Leon street, $91,500. Architect, private plans. Owners, Miller, Gillman & Katz, 883 North Holly street, Philadelphia. Brick, 2 stories, 16x26 feet, 12x11 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (8), North side Stevens road, West of Oakley street, $32,000. Architect, private plans. Owner, William Ingham, 5533 North American street, Philadelphia. Brick, 2 stories, 16x28 feet, 10x10 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residence, West side Sixth street, North of Sixty-fourth avenue, Philadelphia, $15,000. Architect, private plans. Owner, Ralph Robbins, 4733 North Camac street, Philadelphia. Stone, 3 stories, 50x33 feet, 16x12 feet, hardwood and pine floors, slate roof, electric light, tile work. Permit issued.

Manufacturing Building (add .and alts.), West side Darien street, North of Parrish street, Philadelphia, $4,000. Architect, private plans. Owners, Powers, Weightman & Rosengarten, 9916 Parrish street, Philadelphia. Brick, 1 story add., 15 feet 8 inches x 30 feet, general alterations. Permit issued.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Garage, Southwest corner Germantown Avenue and Marshall Street, Philadelphia, $16,000. Architect, private plans. Owners, Washington Hotel Co., Seventh and Dauphin Streets, Philadelphia. Brick, 1 story, 45 feet x irregular, slag roof, cement floors. Contract awarded to Schechtman Bros., 1904 N. Marshall St., Philadelphia.

Storage Building, 1020 N. Marshall Street, Philadelphia. $2,000. Architect, private plans. Owner, Wm. Stern, Marshall St., and Girard Ave., Philadelphia. Brick, 1 story, 9 feet 11 inches x 32 feet, slag roof, electric lighting. Contract awarded to David Josephson, 5405 Walnut Street, Philadelphia.

Garages, 327 South Eleventh Street, Philadelphia, $2,000. Architect, private plans. Owner, Joseph Goodman, 327 South 11th St., Philadelphia. Brick, 1 story, 42x16 feet, slag roof, cement floors, electric work. Contract awarded to Weinstein and Pearson, 222 S. 57th St., Philadelphia.

Country Club, Torresdale, Pa., $90,000. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Torresdale and Frankford Country Club, care of C. Evans, Torresdale avenue, Tacony, Pa. Brick, hollow tile, cut stone, stucco, steel, 2½ stories and basement, 118x42 feet, asbestos shingle roof, cement and pine floors, hollow tile, electric light (heating separate), metal lath, tile work, roof ventilators, waterproofing, ornamental iron work, limestone, metal toilet partitions, slate roof (alternate). Contract awarded George H. Evans, Inc., 1416 Vine street, Philadelphia.

Theatre (moving picture), Fifty-fourth and Arlington avenue, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Apollo Amusement Co., care of Charles Segell, 1237 North Fifty-second street, Philadelphia. Brick, 2 stories, 228x98 feet, gypsum roof, mosaic and terrazzo floors, tile and marble work, kalamein doors, structural steel, iron work, architectural terra cotta, dampmproofing, carpentry and mill work, painting and glazing, art glass, concrete and cement work, shoring, excavation. Contract awarded W. Edward Pierce, 1600 Arch street, Philadelphia.

Garage and Service Building, North side Walnut street, East of Fifty-seventh street, Philadelphia. Architect, Charles G. Schweiker, 1209 Garfield avenue, Manoa Heights, Pa. Owner, I. Nagel, 5713 Pine street, Philadelphia. Brick, reinforced concrete, 2 stories and basement, 118x52 feet, slag roof, cement floors, elevators, metal ceilings, ornamental iron work, fire doors, steel sash, metal lath, steam heat, electric light. Contract awarded to W. R. Smithwick, 406 Kenmore road, Brookline, Pa.

Building, Sixty-third and Market streets, Philadelphia. Architect, George C. Nimmons, 122 South Michigan Boulevard, Chicago, Ill. Owners, Sears-Roebuck Co., Mr. Rosenwald, Roosevelt Boulevard, Philadelphia. Brick, reinforced concrete, limestone, steel, 2 stories and basement, 250x150 feet x irregular (plumbing, heating, electric and elevators reserved), slag roof, rubber tile, maple and cement floors, safety treads, integral waterproofing, metal lath, tile, marble and terrazzo work, rolled steel sash and skylights, elevator doors, kalamein doors, ornamental iron work, iron stairs, caisson. Contract awarded to Irwin & Leighton, 126 North Twelfth street, Philadelphia.

Stores (alts.), Fifth and Market streets, Philadelphia. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, name withheld. Carpentry and mill work, shoring, cement work, hardware, brick, electric work. Contract awarded J. Manin, 5226 West Berks street, Philadelphia.

Hospital, Northeast Corner Twenty-third and Chestnut streets, Philadelphia. Architects, V. B. Smith, Guarantee Trust Building, and Brunton Studio, Inc., 801 Kentucky avenue, Atlantic City, N. J. Owners, Central Hospital, Dr. E. Underhill, Building Committee, on premises. Details undecided. Contract awarded D. A. McClelland, Drexel Building, Philadelphia.

Service Station, Pulaski and Chelten avenues, Philadelphia. Architect, John Cantley, Harrison Building, Philadelphia. Owners, Davis Buick Co., on premises. Brick, steel, cut stone, 2 stories and basement, 128x160 feet, slag roof, cement floors, plumbing, steam heat, metal lath, tile work, ornamental iron work. Contract awarded Stofflet & Tillotson, Wesley Building, Philadelphia.

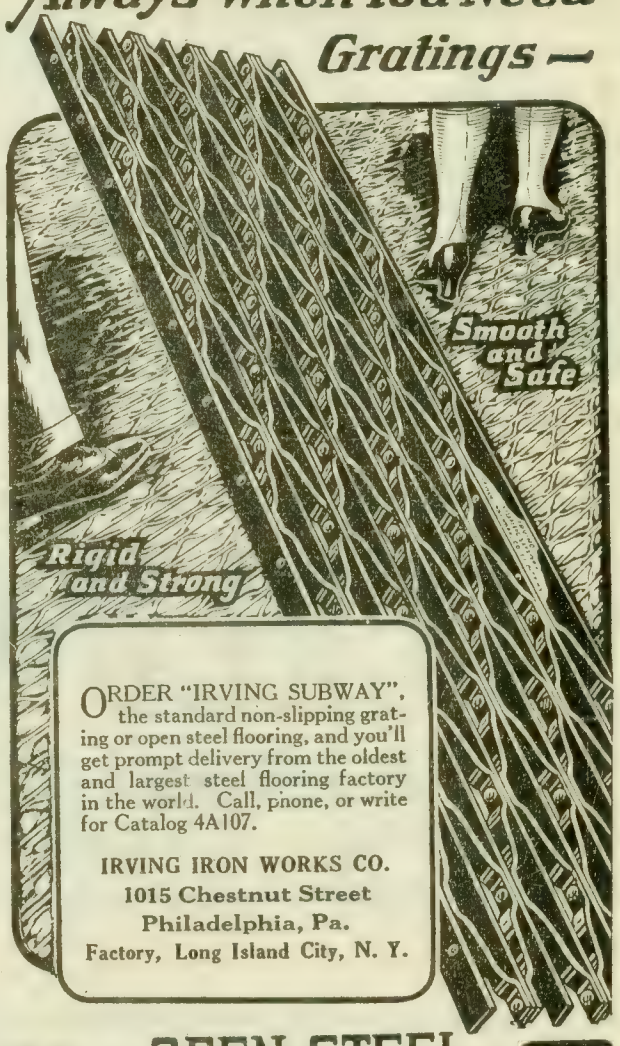
Service Station, Southeast Corner Girard avenue and Hancock street, Philadelphia. Engineer, T. J. O'Connell, American Building, Baltimore, Md. Owners, American Oil Co., American Building, Baltimore, Md. Brick, architectural terra cotta, steel, 1 story, 13x10 feet, tin roof, bond, cement floors, plumbing, concrete waterproofing, ornamental iron work, electric light. Contract awarded F. W. Van Loon, Perry Building, Philadelphia .

Bank Building, Ogontz and Limekiln pike, Philadelphia. Architect, J. T. Brugger, Public Ledger Building, Philadelphia. Owners, Olney Bank & Trust Co., on premises. Brick, limestone, 1 story and basement, 60x81 feet, irregular, slag roof, composition floors, electric light. Contract awarded Paul Brosz, 2511 West Huntingdon street, Philadelphia.

Stores and Offices, 1638-40-42 Hunting Park avenue, $20,000. Architect, private plans. Owner, Stephen Haas, Land Title Bulding, Philadelphia. Brick, steel, 2 stories, 83x105 feet, slag roof, concrete floors, hot water heat, concrete ramps, electric light, rolled steel sash, hollow metal skylights. Contract awarded to Frank Radomski, 4329 North Sixteenth street, Philadelphia.

Store (alts.), 622-24 West Girard avenue, Philadelphia. Architect, Edwin L. Rothschild, Bankers' Trust Building, Philadelphia. Owners, Stern & Rosenburg, on premises. Brick, 1 story add., 10x30 feet, interior alterations. Contract awarded D. Josephson, 3405 Walnut street, Philadelphia.

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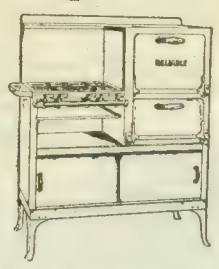
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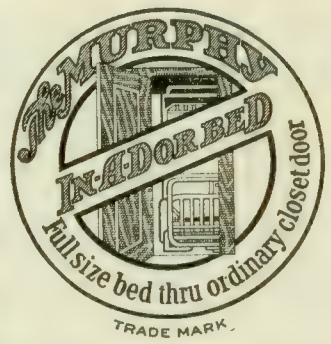
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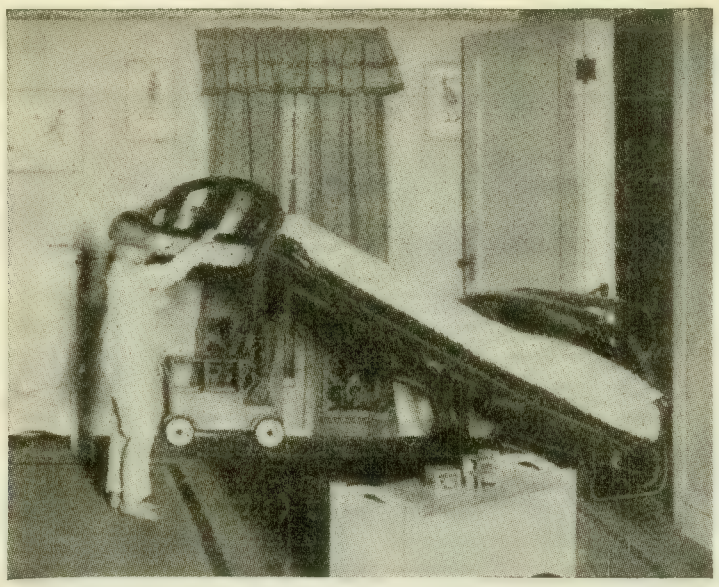
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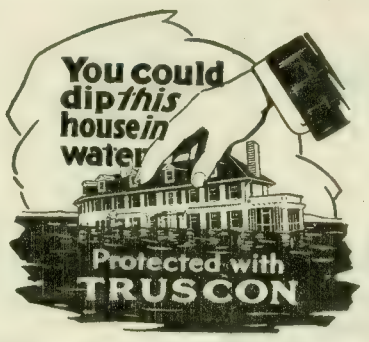
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Residence (alts. and add.), 191 Roosevelt Boulevard, Philadelphia. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owner, Dr. H. Arnstein, on premises. Steel casement sash, carpentry and mill work, concrete work, plastering, brick work, tile floors, plumbing. Contract awarded Smith & Hallstrom, Oxford avenue, Fox Chase, Pa.

Factory, Wyoming and G street, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Walter E. Knipe & Son, on premises. Contract awarded Frank G. English & Son, 1608 North Carlisle street, Philadelphia.

Post Office, East side Mascher street, North of Tabor road, Philadelphia, $22,000. Architect, C. Quinn, Federal Building, Moorestown, N. J. Owners, Morris Wolf, care of architect. Brick, 1 story, 69x95 feet, slag roof, electric lighitng. Contract awarded to A. Earl Barnes & Co., 2044 East Clementine street, Philadelphia.

Grandstand, West side Vernon road, South of City Line, Philadelphia, $3,000. Architect, private plans. Owners, Temple University, Broad and Montgomery avenue, Philadelphia. Frame and brick, 28x200 feet. Contract awarded to Joseph W. McHugh, Cynwyd, Pa.

Residence (add. and alts.), Northwest Corner Forty-fifth and Sansom streets, Philadelphia. Architect, private plans. Owner, Henry A. McQuillen, 708 South Forty-ninth street, Philadelphia. Brick, third story add., 12 feet 6 inches x 11 feet, general alterations. Contract awarded to T. E. McGowan, 3936 Spring Garden street, Philadelphia.

Contracts Awarded on Paving Bids. (Bids due October 19th.) Owners, Department of Public Works, Bureau of Highways, Philadelphia. Dock street, Mazzola & Marano, Inc., 739 South Seventh street, Philadelphia, $93,-839. Rockland street, Mack Paving Co., Nicetown lane and Luzerne street, $23,982.19. Seventy-fourth avenue, Mack Paving Co., Nicetown and Luzerne street, $10,802.40. Other 16 contracts to Union Paving Co., 123 South Twenty-first street, Philadelphia, total $315,000.

Storage Building, 5633 Summer street, Philadelphia, $6,000. Architect, private plans. Owner, John Lister, care of builder. Brick, 1 story, 32x100 feet, slag roof, electric lighting. Contract awarded to Frank Brown, Sr., 5816 Haverford avenue, Philadelphia.

Residence, 3060 Janney street, Philadelphia, $5,000. Architect, private plans. Owner, Fred Madden, Janney street, South of Ann street, Philadelphia. Brick, 2 stories, 16x46 feet, slag roof, pine floors, electric work. Contract awarded to P. J. Brown, 3064 Tulip street, Philadelphia.

Garage, East side Twenty-seventh street, North of Brown street, Philadelphia, $30,000. Architect, private plans. Owner, S. Gottlieb, Twenty-seventh and Brown streets, Philadelphia. Brick, 1 story, 70x120 feet, slag roof, cement floors. Contract awarded to Frank I. Wintz, 1618 North Twenty-seventh street, Philadelphia.

Power Building (alts.), South side Sansom street, East of Seventh street, $15,000. Engineer, Frank C. Roberts, Real Estate Trust Building, Philadelphia. Owners, Curtis Publishing Co., Sixth and Walnut streets, Philadelphia. General alterations. Contract awarded to Doyle & Co., 1519 Sansom street, Philadelphia.

Fan House, Southwest Corner Sixty-eighth and Greenway avenue, Philadelphia, $10,000. Architect, private plans. Owners, American Cigar Co., Twelfth and Washington avenue, Philadelphia. Brick, 2 stories, 34x30 feet. Contract awarded to A. R. Raff Cont. Co., 1635 Thompson street, Philadelphia.

Residence, South side Prospect avenue, West of Southampton, $5,000. Architect, private plans. Owner, Mrs. Jessie Ross, 5538 North Third street, Philadelphia. Tile, 2 stories, 28x18 feet, 34x5 feet, hot water heat, electric work. Contract awarded to William G. Ross, Merschel road, Somerton, Pa.

Storage Building (alts.), 1118 South Broad street, Philadelphia, $3,000. Architect, private plans. Owner, George F. Stinger, 1120 South Broad street, Philadelphia. General alterations. Contract awarded to John W. Weiss, 4751 North Marshall street, Philadelphia.

Bakery (add.), 341 East Rittenhouse street, Philadelphia, $5,000. Architect, private plans. Owners, Leonporra & Mazzanoto, on premises. Brick, 1 story add., 20x77 feet, slag roof, pine floors, electric work. Contract awarded to John Roman, 414 East Bringhurst street, Philadelphia.

Storage Building (alts.), 2636 Germantown avenue, $4,000. Architect, private plans. Owners, Wise Realty Co., Harrison Building, Philadelphia. General alterations. Contract awarded to H. J. Levinson, Elrae Building, Philadelphia.

Store and Storage (add. and alts.), Northeast Corner Eighteenth and Columbia avenue, $4,000. Architect, private plans. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, 3 stories add., 7x18 feet, general alterations. Contract awarded to Paul Brosz, 2515 West Huntingdon street, Philadelphia.

Residence (add.), 3342 North Thirteenth street, Philadelphia, $3,000. Architect, private plans. Owner, Mrs. Anna E. Crowell, on premises. Brick, third story add., 14x28 feet. Contract awarded to H. P. Werner, 3245 Germantown avenue, Philadelphia.

Residence (alts.), 5746 Chestnut street, Philadelphia, $2,500. Architect, private plans. Owner, Sophia Fletcher, 511 South Fifty-fifth street, Philadelphia. General alterations. Contract awarded to Walter A. Evitts, 4920 Fairmount avenue, Philadelphia.

Residence and Store (add. and alts.), 2523 South Broad street, Philadelphia, $2,300. Architect, private plans. Owner, J. Meyers, on premises. Brick, 1 story add., 20x7 feet, 4x48 feet, general alterations. Contract awarded to McCormick-Lenham Co., 2403 South Broad street, Philadelphia.

Pennsylvania Construction News

Store, Apartment and Garages (5), West Chester Pike and Lynn Boulevard, Bywood, Pa. Architect, E. Allen Wilson, 1208 Chestnut Street, Philadelphia. Owner, name withheld. Brick, 2 stories, 18x60 feet, slag and tile roof, hardwood floors, hot water heat, electri clight, metal lath, tile work, cement work, flush bulks, plate glass. Plans in progress.

Single Residence and Garage (12), Crescent Park, Camden, N. J. Architect, E. Allen Wilson, 1208 Chestnut Street, Philadelphia. Owner, Smith Bros. and Lewis, Crescent Park, Camden, N. J. Brick, frame, stucco, 2½ stories various sizes, hot water heat, electric light, tile work, wood shingle roof, pine and hardwood floors. Owner taking sub-bids.

Bridge, over Tyson's Run, Lower Salford Township, Pa. Engineer, S. C. Hollister, Norristown, Pa. Owner, Montgomery Co., W. C. Irvin Cont., Court House, Norristown. Contract awarded R. D. Stoyer, Shillington, Pa., $5,343.

High School, Sixth, Seventh, Walnut and Spruce Streets, Upper Darby, Pa. Archi-

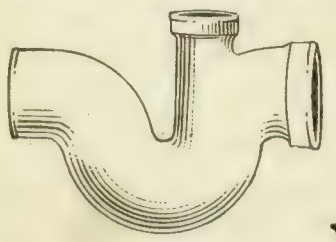
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tect, Ritter and Shay, Packard Building, Philadelphia. Owner, School Dist., J. E. Mellon, 1012 Pine Street, Darby, Pa. General construction, heating, electric, plumbing, ventilating. Certified check and bond. Deposit $15.00. Refunded $10.00. Owner taking bids due Nov. 16th before 5 P. M.

Residence (add.), Elkins Park, Pa. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owner, S. B. Koffler, Elkins Park, Pa. Frame, stone, 2 stories, electric light, plumbing, tile and m arble work. Plans in progress.

Nurses' Home, Blakely, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, Pa. Owners, Mid-Valley Hospital, E. S. Jones, president, Blakely, Pa. Brick. Plans in progress.

Hospital (add.), Blakely, Pa. Architect, Edward Langley, Scranton Life Building, Scranton, ,Pa. Owners, Mid-Valley Hospital, E. S. Jones, president, Blakely, Pa. Brick, 3 stories add. Plans in progress.

Residence and Garage, Merion, Pa. Architect, A. C. Behr, 1326 North Robinson street, Philadelphia. Owner, W. E. Hexamer, 932 Chestnut street, Philadelphia. Stone, frame, 2½ stories, 32x75 feet, shingle roof, hardwood floors, hot water heat, oil burning, electric light, tile work, 3 baths. Plans completed.

Consolidated School, Schwenkville, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, School District Lower Frederick Township and Schwenkville Borough, W. S. Brey, Schwenkville, Pa. Fireproof, 1 story, 17 class rooms, gymnasium and auditorium, slag roof, composition floors, hollow tile, safety treads, roof ventilators (heating, plumbing, electric separate), metal lath, steel sash, bond, iron stairs. Plans in progress.

Apartment House (70 apartments), Front and Harrison streets, Harrisburg. Architects, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, C. J. Lappley, Parkside Building, Harrisburg, Pa. Fireproof, 6 stories, 150x150 feet, slag roof, composition and maple floors, elevators, steam heat, electric light, metal lath, tile and marble, refrigeration, incinerator, iron stairs, iron work. Plans in progress.

Residences (30), Manoa, Pa. Architect, private plans. Owners, Fisher & Miller, Manoa, Pa. Frame, stucco, 2½ stories, 16x40 feet, hot water heat, electric light, shingle roof, oak and pine floors, tile work, ornamental iron work. Owners ready for sub-bids early in spring.

Twin Residences (6 pairs), Sharon avenue, Collingdale, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Joseph Mickles, care of Cohen & Pollin, 4132 Poplar street, Philadelphia. Stone, brick, stucco, 2 stories, 16 feet 5 inches x 42 feet, asbestos shingle, slag and tin roof, hardwood and pine floors, hot water heat, electric light, tile work, separate garages, 1 story, 10x18 feet, cement work. Owner taking sub-bids.

Warehouse, North Cameron street, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Standard Iron & Steel Co., Harrisburg, Pa. Fireproof, 2 stories, 40x100 feet, slag roof, concrete floors, freight elevators, hollow tile, steam heat, electric light, metal lath, steel sash, fire doors. Architect ready for bids in one week.

Church and Sunday School, Washington, D. C. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, J. Albright Memorial Evangelical Church, Rev. George E. Schwake, 202 Quackenbas street, Washington, D. C. Stone, 1 story, slate roof, composition and maple floors, metal lath, gypsum roof (heating, plumbing, electric reserved). Owners ready for bids.

Cleaning Shop, Paxtang avenue, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, Harold Fleisher, 21 North Second street, Harrisburg, Pa. Brick, steel, 1½ stories, 40x90 feet, slag roof, concrete floors, roof ventilators, steel sash, steam heat, electric light. Owner will take sub-bids.

Twin House, Collegeville, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, H. W. Brown, Fifth avenue, Collegeville, Pa. Stone, 2 stories, 36x52 feet, asbestos shingle roof, oak and pine floors, wood and steel sash, tile work, hot air heat, electric work. Plans in progress. Owner will take bids.

Residence, Elkins Park, Pa. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owner, Dr. Silberman, care of architect. Hollow tile, stucco, 2½ stories, 58x24 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architects taking bids due October 27th.

Church and Sunday School (add .and alts.), Oley, Pa. Architect, H. Maurer, 234 North Fifth street, Reading, Pa. Owners, Friedens Reformed Church, Rev. Sweitzer, Oley, Pa. Brick, 1 story and basement, 50x80 feet, slate roof, oak floors, leaded glass, steam heat, electric light. Architect taking bids due October 29th.

Y. M. C. A. Building, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Y. M. C. A., care of architect. Fireproof, 4 stories, 69x60 feet, built-up roof, hardwood floors, roof ventilators, hollow tile, ornamental iron, iron stairs, tile, marble, metal lath, electric light. Architect taking bids due November 10th.

School, Red Lion, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Red Lion School Board, Red Lion, Pa. Brick, steel, cut stone, 2 and 3 stories and basement, 172x115 feet. Lowest bidders: J. S. Foose, Harrisburg, Pa., $82,866.38. Plumbing, Carl W. Stump, Red Lion, Pa., $2,630. Heating, M. H. Baker & Co., Harrisburg, Pa. ,$15,890. Electric, Conestoga Electric Co., Lancaster, Pa., $2,895.

Highway Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Owners taking bids due November 5th at 10 A. M.

Allegheny County, R-770, Section 4b, A-4358, Harmar Township, 13,805 feet. One course reinforced concrete. Certified check, $2,500.

Butler County, R-246, A-4339, Zelionople Borough, Jackson Township, 13,200 feet. One course reinforced concrete. Certified check, $2,500.

Fayette County, R-288 and 247, Sec. 4, A-4253, Franklin and Perry Townships, 21,430 feet. One course reinforced concrete. Certified check, $3,000.

Greene County, R-112, Sec. 4, A-4238, Carmichaels Borough, Cumberland Township, 5,195 feet. One course reinforced concrete. Certified check, $1,500.

Huntingdon County, A-2845 and 2828-A, Carbon Township, Broad Top City Borough, 7,931 feet. One course reinforced concrete. Certified check, $2,000.

Lehigh County, R-487, A-4373, Salisbury Township, 10,210 feet. One course reinforced concrete. Certified check, $2,000.

York County, R-411, A-4338, Manheim Township, 15,749 feet. One course reinforced concrete. Certified check, $2,500.

Pennsylvania State Highway Work. Bids received October 15th:

Schuylkill County, R-464, A-3925-3926, Sec. 1, Gilberton and Shenandoah Borough, West Mahanoy Township. Bituminous surface course on broken stone base. Lowest bidders: Swanger & White, Lebanona, Pa., $86,792.

Warren County, R-94, Sec. 2, Warren Borough. One course reinforced concrete. H. E. Bunce, Chester, West Virginia, $52,196.20.

Jefferson County, R-61, A-4213, Snyder Township. One course reinforced concrete. Cooper Const. Co., Clymer, Pa., $98,793.51.

Warren County, A-4104, Pleasant Township. One course reinforced concrete. F. L. White, Warren, Pa., $102,870.56.

Northampton County, R-175, Sec. 4, A-3364, Lehigh Township, Walnutport Borough. One course reinforced concrete. Lincoln Const. Co., Strafford, Pa., $110,952.93.

Mifflin County, A-4262, Derry Township. Bituminous surface treated. J. M. Hutchinson, Altoona, Pa., $17,060.90.

Delaware and Montgomery Counties, R-516, A-4383, Radnor, Haverford and Lower Merion Townships. One course reinforced concrete. Comerford Const. Co., Fifth and Sansom streets, Philadelphia, $131,125.94.

Somerset County, R-222, Windber Borough. One course reinforced concrete. Sky Cont. Co., Johnstown, Pa., $38,652.25.

Potter County, R-103, A-4235, Lewisville Borough. Bituminous surface treated macadam. D. L. Dennis, Galeton, Pa., $55,401.25.

Chester County, A-4117, East Brandywine Township. One course reinforced concrete. Dunleavy Brothers Co., Coatesville, Pa., $28,-131.55.

Somerset County, R-52, A-3725-3726, Jenner and Conemaugh Townships. One course reinforced concrete. Michael Barber, Binghamton, N. Y., $91,632.12.

York County, A-2003-B, Codorus Township. One course reinforced concrete. York Eng. & Const. Co., York, Pa., $122,328.70.

Cambria County, R-221, A-4241, Sec. 4, Clearfield and Allegheny Townships, Chester Springs Borough. One course reinforced concrete. Paul Const. Co., Inc., Cresson, Pa., $92,798.54.

Lehigh County, A-4298, Whitehall Township. One course reinforced concrete. Swanger & White, Lebanon, Pa., $51,278.57.

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Pennsylvania Contracts Awarded

Store and Apartments, Ardmore, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia, $135,000. Owner, H. J. Rittenhouse, Ardmore, Pa. Brick, steel, stucco, 1 story, 47x60 feet, slag and slate roof, pine and oak floors, cement work, electric light. Contract awarded and signed to Ketcham & McQuade, 1029 Brown street, Philadelphia, without competition, in addition to previous contract.

Sales and Service Building, Lansdowne, Pa. Architect, James C. Fernald, 5533 Wyalusing avenue, Philadelphia. Owners, Taylor Motor Co., Dr. F. Taylor, 40 and 50 Baltimore avenue, Philadelphia. Brick, steel, 1 story and basement, 105x60 feet, magnesite asphalt roof, cement floors, plumbing, roof ventilators, metal ceilings, ornamental iron work, rolled steel sash, electric light, plate glass. Contract awarded McNeill Const. Co., Schaff Building, Philadelphia.

Residence, South corner of Huey avenue and Hampshire road, Drexel Park, Pa. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, name withheld. Stone, reinforced concrete, brick, 2½ stories and basement, 49x45 feet, gray slate roof, oak, pine and cement floors, plumbing, hot water heat, electric light, tile work, metal lath, rolled steel sash, bond, ornamental iron work, flagstone, cinder concrete block. Contract awarded Metzger, Fisher & White, Otis Building, Philadelphia.

New Coal Bunkers, Power House (alts.), Bryn Mawr, Pa. Architect, H. Berkly Hackett, engineer, Ledger Building, Philadelphia. Owners, Bryn Mawr College, Bryn Mawr, Pa. Reinforced concrete, 50x30 feet, membrane waterproofing, reinforced concrete roadways, sewers, strengthening old power house underpinning. Contract awarded to McBride Const. Co., 10 South Eighteenth street, Philadelphia.

Hotel Superstructure, Pottsville, Pa., $700,000. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Community Hotel Co., Pottsville, Pa. Brick, cinder block, cast stone, steel, 9 stories and basement, 125x200 feet, steam heat, electric light, metal lath, tile and marble work, rolled steel sash, ornamental iron work, slag roof, cement floors, elevators. Contract to supervise awarded to Day & Zimmerman, who are taking sub-bids and general bids.

Club House (add.), near Bethayres, Pa. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Philmont Country Club, Ellis Gimbel, on premises. Brick, cut stone, steel, concrete, 2½ stories and basement, 68x40 feet, wing 41x121 feet, tile and slag roof, cement and oak floors, metal weather strip, shoring, waterproofinfig, ornamental iron work, iron stairs, bond, fire and rolled steel doors, tile, marble and terrazzo work, metal lath, metal partitions, stone work, soda equipment, bluestone, membrane waterproofing, integral waterproofing, limestone, area gratings. Contract awarded I. Demarest, 10 South Eighteenth street, Philadelphia.

Trestle Facilities, Downingtown, Pa. Chief engineer, S. T. Wagner, Twelfth and Market streets, Philadelphia. Owners, Philadelphia & Chester Valley Railroad, care of Philadelphia & Reading Co., Twelfth and Market streets, Philadelphia. Concrete, steel, bond, iron work, lumber. Contract awarded O'Rourke Brothers, Norristown, Pa.

Recreation Building, Eddington, Pa. Architects, Bunting & Shrigley, 603 Chestnut street, Philadelphia. Owners, Eddington Presbyterian Church, Eddington, Pa. Stone, 1 story, 30x60 feet, slate roof, pine and cement floors, steam heat, electric light, ornamental iron work. Contract awarded Morris Girton, Newtown, Pa.

Store and Office (alts.), 7-9-11 South Market street, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, James McCormick Estate, care of architect. Brick, steel, limestone, composition roof, maple floors, electric light, hollow tile, elevators, metal lath, tile work, steel sash, fire doors. Contract awarded to J. F. Saussaman, 12 North Market Square, Harrisburg.

Garage, Wyoming avenue, Scranton, Pa. Architect, J. D. Powell, 435 Adams avenue, Scranton, Pa. Owner, Nicholas Coyer, care of architect. Semi-fireproof, 1 story, 80x150 feet, slag roof, cement floors. Contract awarded to S. Palumbo, Miller Building, Scranton, Pa.

Factory and Office, York, Pa. Architect, Edward Leber, Hay Building, York, Pa. Owners, York Cone Co., H. E. Kessler, president, 623 East Pine street, York, Pa. Brick, 1 story ,40x115 feet, slag roof, wood floors, electric work. Contract awarded to I. Riandollar & Son, York, Pa.

Store (add. and alts.), North Duke street, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Landis Electric Shop, 213 North Duke street, Lancaster, Pa. Brick, steel, limestone, 1 story, 75x35 feet, slag roof, hardwood floors, vapor heat, electric light, tile and marble, plate glass, general alterations. Contract awarded to A. C. Sheets, East Petersburg, Pa.

Residence, Lime street, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owner, Dr. C. H. Witmer, 126 East Chestnut street, Lancaster, Pa. Stone, stucco, 3 stories, 67x30 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Contract awarded to D. S. Warfel, 452 North Prince street, Lancaster, Pa.

Garage and Show Room (add.), Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owners, Buckwalter, Sweigart Co., Lemon and Mary streets, Lancaster, Pa. Concrete, brick, 2 stories, 20x60 feet, composition roof, linoleum floors, heating extension, electric light. Contract awarded to B. F. Hull, 427 East Orange street, Lancaster, Pa.

Residence (add. and alts.), Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owner, J. D. Hartman, 924 Marietta avenue, Lancaster, Pa. Stone, stucco, 2½ stories, 28x45 feet, shingle roof, hardwood floors, hot air heat, electric light, tile work. Contract awarded to H. L. Wiant, 544 Mill street, Lancaster, Pa.

Temporary Timber Trestle Bridge, North of Eagle road over Cobb's Creek, Haverford, Pa. Architect, S. C. Hollister, Media, Pa. Owners, Delaware County Commissioners, G. T. Wadas, Media, Pa. Contract awarded Carl R. Camp, 10 South Eighteenth street, Philadelphia.

Pennsylvania State Highway Work.

Bradford County, R-13, A-4207, Terry Township. Bituminous surface treated macadam. Contract awarded to D. L. Dennis, Galeton, Pa., $50,527.13.

Fayette County, R-247, Sec. 9, Fayette City Borough, Washington Township. One course reinforced concrete. Contract awarded to Petriello Brothers, South Brownsville, Pa., $59,284.31.

Allegheny County, A-3756, McCandless Township. One course reinforced concrete. Contract awarded to Thomas Cronin Co., Pittsburgh, Pa., $52,135.99.

Allegheny County, R-257, A-4322, North Fayette Township. One course reinforced concrete. Contract awarded to Thomas Cronin Co., Pittsburgh, Pa., $69,471.36.

New Jersey Construction News

High School, Clayton, N. J. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School Board of Clayton, N. J. Brick, steel, stone, 2 stories and basement. Plans in progress.

Bank Building, Southeast Corner Broadway and Spruce streets, Camden, N. J. Architect, not yet selected. Owners, Victory Trust Co., care of Myer Wessel, Third and Pine streets, Camden. Brick, steel, limestone, 40 feet x irregular. Work contemplated. Selection of architect will be made in a few weeks.

Pipe Shed, Camden, N. J. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owners, Keystone Supply & Mfg. Co., 927 North Ninth street, Philadelphia. Plans completed. Architect ready for bids.

High School, Vineland, N. J. Architects, Guilbert & Betelle, Newark, N. J. Owners, City of Vineland, Board of Education, Vineland, N. J. Brick, stone, steel, 2 stories. Finishing plans. Owners will be ready for bids in about a month.

Fire House, Hamilton Township, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Hamilton Township Commissioners, care of architects. Brick, steel, 2 stories, 40x60 feet, slag roof, concrete floors, steam heat, electric light. Architects taking bids.

Club House, Prospect avenue, Princeton, N. J. Architect, Grosvenor S. Wright, 250 Park avenue, New York. Owners, Princeton Court Club, Princeton, N. J. Brick, reinforced concrete, limestone, steel, 2½ stories and basement, 73x62 feet, slag, slate (Bangor No. 2 clear) roof, cement, oak and pine floors, hol-

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Garage, Southeast Corner Seventh and Linden streets, Camden, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Bridge Plaza Parking Garage, care of architect. Brick, reinforced concrete, steel, 4 and 5 stories and basement, 186x274 feet, slag roof, cement and composition floors, safety treads, slag roof, tin clad and kalamein doors, waterproofin gand dampproofing, metal lath, rolled steel sash, bond, floor hardener, ornamental iron work, rolled steel shutters, steel partitions. Architects taking bids due as soon as possible.

Municipal Water Works, Brooklawn, N. J. Engineer, Edgar Wittwer, 723 Haddon avenue, Collingswood, N. J. Owners, Borough of Brooklawn, J. Y. Bishop, clerk, Brooklawn, N. J. Contract No. 1, water works building. Contract No. 2, mechanical department. Contract No. 3, Venturie meter. Contract No. 4, one 12-inch artesian well. Contract No. 5, approximately 1,685 lineal feet 8-inch and 12-inch Class B C. I. water main. Contract No. 6, one stand pipe. Contract No. 7, stand pipe foundations. Five per cent. of bid for certified check. Bond. Deposit, $15; refund, $10, if plans are returned by November 13th. Owners taking bids due November 3rd, 8 P. M.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Construction on extension of State Highway Routes 2, 3 and 6, on Delaware River Bridge approaches, known as connecting road, Sections 1A and 2A, Camden County, double line reinforced concrete pavement. Deposit, $10. Certified check, 10 per cent. Owners taking bids due November 8th at noon.

Bridge, Edgewater avenue, Westville, N. J. County engineer, W. C. Cattell, Woodbury, N. J. Owners, Gloucester County Board of Freeholders, Woodbury, N. J. Reinforced concrete. Low bidder: S. Erricksen, Mantua, N. J., $10,619, add $1,500.

Road Grading, Woodbury, N. J. County engineer, W. C. Cattell, Woodbury, N. J. Owners, Gloucester County Board of Freeholders, Woodbury,N. J. Low bidder, care of bid: Charles D. Prosser, Pitman, N J., $64.60. Curbs adn gutter, Clayton-Williamstown road, C. B. Platt, Bridgeton, N. J. (care of bid), $94.06.

Porch (add.), Almhouse, New Libson, N. J. Architect, Herbert O. Ziegler, Drexel Bldg., Phila. Owner, Burlington Co., Board of Chosen Freeholders, Camden, N. J. Low bidder: T. C. Platts, Mt. Holly, N. J., $3800.

Residences, 1337-39-41-45 Van Hook Street, Camden, N. J., $16,000. Architect, private plans. Owners, Anthony Wacnik, Bldrs. Corp., Northwest Corner Sixth and Kaighn Avenue, Camden, N. J. Brick, 2 stories, 15x40 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (4) 1135-37 and 1136-38 North Thirty-first street, Camden, N. J., $3800 each. Architect, private plans. Owner, Wm. H. Townsend, 3129 River Ave., Camden, N. J. Frame, 2 stories, 14x38 feet, Carey Asbestos roof, pine floors, warm air heat, electric light. Permit issued.

New Jersey Contracts Awarded

Fire House (alts. and add.), New Jersey Hospital for Insane, Greystone Park, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Brick, terra cotta, concrete, steel, limestone, stucco, 2 stories and basement, 66x32 feet, slate roof, cement floors, metal lath, marble, bond, floor hardener, iron stairs, ornamental iron, waterproofing. Contract awarded to Nora & Nora Const. Co., New Brunswick, N. J. Plumbing and heating to Jaehnig & Peoples, Newark, N. J. Electric to Jaehnig & Peoples, Newark, N. J.

Garages (16), Merrimac and New Hampshire road, Camden, N. J., $5,000. Architect, private plans. Owner, Charles Fleron, Gloucester, N. J. Block, 1 story, 10x19 feet, slag roof, cement floors, electric work. Contract awarded to Franklin Hawkey, Glendora, N. J.

Stores (alts.), 1161 Baring street, Camden, N. J., $1,975. Architect, private plans. Owner, M. Baret, 1161 Baring street, Camden, N. J. New flush bulks, removing old bulks, general alterations. Contract awarded to Victor Bezahler, 1027 Atlantic avenue, Camden, N. J.

Bridge over Salem Creek, Salem, N. J., $356,589.48. County engineer, Salem, N. J. Owners, State of New Jersey. Reinforced concrete. Contract awarded S. Campbell and Charles C. Brook, Inc., Bridgeton, N. J.

Building, 1300 Walnut street, Camden, N. J., $12,000. Architect, private plans. Owners, Himmelein & Bailey ,on premises. Brick and block, 1 story, 105 feet x irregular, slag roof, electric work. Contract awarded to Lewis T. West, Fifth and Royden streets, Camden, N. J.

Building (add.), 1930 South Sixth street, Camden, N. J., $6,000. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Samuel M. Langston Co., on premises. Brick, 1 story add., 5x160 feet, slag roof, electric work. Contract awarded to Fearn & Voegtlin, 4402 Westfield avenue, Camden, N. J.

Tank, Southeast Corner Sixth and Mechanic streets, Camden, N. J., $5,000. Architect, private plans. Owners, American Cigar Co., on premises. Wood water tank, capacity 25,000 gallons. Contract awarded to Rusling Co., 26 Cortland street, New York.

Residences (2), 1332-34 Haddon Avenue, Camden, N. J., $8500. Architects, Lackey & Hettle, 5 Hudson Ave., Camden, N. J. Owner, Frank F. Neutze, Security Trust Bldg., Camden, N. J. Brick and block, 2 stories, 16x38 feet, slag roof, warm air heat. Contract awarded to Edmund Sharp, 18 N. 27th St., Camden, N. J.

Miscellaneous Construction News

Residence and Garage, Louisville, Ky. Architect, Carl A. Ziegler, 1012 Walnut street, Philadelphia. Owner, Judge Charles H. Mormon, Louisville, Ky. Brick. Plans in progress.

Class Rooms and Biology Building, Fordham, N. Y. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Fordham University, Fordham, N. Y. Stone, steel, fireproof, 2 stories and basement, 49x140 feet, slag roof, maple floors, steam heat, electric light, tile work. Architect taking bids due November 1st at noon.

Laundry, Second and Washington streets, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Associated Laundry, care of architect. Steel, concrete, brick, 4 stories and basement, 65x80 feet, Johns Manville roof, concrete floors, elevators, safety treads, waterproofing and dampproofing, iron stairs, fire doors, steel sash, tile work, metal lath, electric light. All bids rejected. Revised plans in progress.

Garage, Race street, Wilmington, Del. Architect, T. C. Tindall, 814 Orange street, Wilmington, Del. Owner, Frank Sterlett, Wilmington, Del. Stone, steel, 1 story, 60x100 feet, asbestos roof, concrete floors, steam heat, electric light. Owner taking sub-bids.

Hospital Building, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Homeopathic Hospital, 1501 Van Buren street, Wilmington, Del. Lowest bidder: W. D. Haddock & Co., 804 Orange street, Wilmington, Del.

Apartments, 825-27 West Sixth street, Wilmington, Del., $15,000. Architect, J. A. McKibbin, Industrial Trust Building, Wilmington. Owner, Ellen R. Ford, care of P. J. Ford, Ford Building, Wilmington. Brick, 3 stories, 28x60 feet, (5) apartments, tin roof, hardwood floors, ,hot water heat, tile work, electric light, Rocklath. Owner will build.

Residences (4), Seventeenth and Woodlawn avenue, Wilmington, Del., $8,000 each. Architect, private plans. Owner, C. J. Dougherty, 2515 West Eighteenth street, Wilmington, Del. Brick, 2½ stories, 21x40 feet, composition roof, hardwood floors, hot water heat, tile work, electric light. Owner will build.

Residences (2), Twenty-sixth and Market streets, Wilmington, Del., $7,000 each. Archi-

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tect, private plans. Owner, S. Kohn, 811 West Nineteenth street, Wilmington, Del. Brick, 2½ stories, 16x45 feet, composition roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Residences (2), 719-21 Coverdale avenue, Wilmington, Del., $22,000. Architect, private plans. Owner, Charles W. Gooding, Jr., 710 West Twenty-third street, Wilmington. Brick, stucco, 2½ stories, 19x41 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Permit issued.

Residences (2), 2905-07 Harrison street, Wilmington, Del., $14,000. Architect, private plans. Owners, W. F. and S. J. Boyce, 910 West Ninth street, Wilmington, Del. Brick, 2 stories, 21x32 feet, slate roof, hardwood floors, hot water heat, electric light. Permit issued.

Bungalow, Pennsylvania avenue, Wilmington, Del., $6,000. Architect, private plans. Owner, Domimnic Cantera, 1705 Pennsylvania avenue, Wilmington, Del. Brick, 1½ stories, 31x36 feet, tile roof, pine floors, hot water heat, electric light. Permit issued.

Pump House and Office, Wilmington, Del. Architect, private plans. Owner, H. S. Bell, Woolworth Building, New York City. Brick, 1 story, 24x48 feet, slag roof, concrete floors. Permit issued.

Residences (6), Thirty-fifth street, Wilmington, Del., $30,000. Architect, private plans. Owner, Irvin J. Britting, 312 West Twenty-sixth street, Wilmington, Del. Brick, 2 stories, 17x33 feet, 8x8 feet, slate roof, pine floors, hot water heat, electric light. Permit issued.

Residences (4), Hamilton street, Wilmington, Del., $26,000. Architect, private plans. Owner, Charles J. Dougherty, 2515 West Eighteenth street, Wilmington, Del. Brick, 2 stories, 21x32 feet, 8x11 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Hospital (add.), Frederick, Md. Architect, Edward Leber, Hay Building, York, Pa. Owners, Fredereick City Hospital, Miss Nies, superintendent, Frederick, Md. Fireproof, 3 stories and basement, 40x96 feet, composition roof, composition and rubber floors, hollow tile, elevators, safety treads, roof ventilators, ornamental iron, iron stairs, steel skylights, tile work, metal lath, heating extension, electric light. Architect taking bids.

Residence, Wilmington, Del. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, W. L. Edison, Wilmington, Del. Stone, hollow tile, stucco, 2½ stories, electric light, shingle roof, hardwood floors, tile and marble work. Architect taking bids due as soon as possible.

Club House, Clayton, Del. Architece, R. C. Tindall, 814 Orange street, Wilmington, Del. Owners, Worth Steel Co., Claymont, Del. Brick, steel, stone, frame, 2 stories, 60x100 feet, shingle roof, pine and maple floors, tile and terrazzo work, steam heat, electric work. Contract awarded to W. L. Hadley, Claymont, Del.

(Continued from Page 680)

scanning American methods of production to learn why we are outstripping them and they are answering their own questions by stating that we succeed by making it possible to produce freely, without being dominated by hampering restrictions. The Labor Union policy of restricting output has Great Britain on its back and if they cannot cut loose from it the ultimate result will be the elimination of Great Britain in its struggle to maintain its place in world commerce. The final result will be the breakdown of the British Empire.

If we want to initiate a policy founded upon that philosophy the five-day week is a good way to begin.

W. L. Clause, chairman of the Board Pittsburgh Plate Glass Company:

As a means of curtailing production, when needful, the five day week is an excellent plan in industries that do not employ processes which are of necessity continuous. As to the question of adopting it as a permanent operative policy, however, I think there is reason for doubt.

The adoption of the eight-hour day has much better justification, not only because it lends itself to all twenty-four hour day operations, but because in many lines of manufacture, it has been found that men can do about as much work in eight hours as they can in ten, or even a longer period, but I see no reason whatever for assuming that men can do as much work in five eight-hour days as they can in six, as a man should be able to work at his maximum efficiency for eight hours.

Our country has grown and developed on its industry and thrift, and I think there is great danger that the present trend may go too far in the other direction, in both respects.

A. L. Humphreys, president, Westinghouse Air Brake Company, Pittsburgh:

If Henry Ford is entitled to any meritorious mention or a niche in the Hall of Fame for any achievement of his for the benefit of American industry, let it be accorded to him in the fullest measure.

On the other hand, when he tries to force an impracticable idea upon American industry and American labor for advertising or for the purpose of reducing expenses on account of the falling off of business, under the pretext that he is doing so in the interest of humanity, he is deserving of as much censure as he is credit for the good he has done in the past.

In saying this, I am convinced that I am expressing the view of practically every manufacturer and employer in this country. By his latest spectacular exhibition of changing the working hours in his plants, creating a week of five working days instead of six, he has done something which can only be applauded by himself. The plan is not only economically wrong and inimical to the best interests of the American working man, but it is also sowing the seed of unrest and dissatisfaction in the structure of our entire industrial machinery. I cannot conceive that Henry Ford in promulgating this plan had any other idea in mind than to add another chapter to his already long list of spectacular advertising feats, or else the conditions in his plants and factories had become such as to make a retrenchment in the working hours a necessary requirement.

The relationship which happily exists at the present time between American employers and employes does not call for the creation of an extra holiday. If an employ is forced by circumstances of a personal nature, or he wishes for private reasons to take a day off, there is nothing to prevent him from doing so. If he wants to go to a game of baseball or football or take his family to a picnic. he can do so without his employers making the slightest objection.

I am convinced that the average American workman does not want anybody—Mr. Ford or anyone else, to coerce him in curtailing his working hours by arbitrary compulsion.

A. H. Mulliken, president, Pettibone Mulliken Company, guard rails, frogs, switches, manganese, etc., New York and Chicago:

It is assumed by some manufacturers that employes could, if they would, turn out as much work in five days as they do in five and one-half days; that the additional time for recreation would benefit the men and their families; that it would lessen the grind of every-day work; that it would give opportunities, not only for recreation, but for study and attention to personal and family affairs that would be helpful.

On the other hand, the dangers of the five-day work week, in the opinion of others, who are equally qualified to judge, is that the workman—particularly the foreign workman, who is only partially trained in the advantages offered by this country—would abuse the additional time; would waste it in unnecessary pleasures, if not in vicious habits; it would mean a waste of the workman's energy; encourage a disposition to loaf; create a desire for many things that would be, not only unnecessary, but burdensome as to purchase and payment and involve men in debt.

It would also create among their families a desire for luxuries and to use the additional holiday for display and injurious amusement.

In other words, this time is wasted if employed in the doing of things which lead to injurious habits.

It is also plain that it is impossible, as a practical condition, for a man to produce as much work in five days as he does in five and one-half days. It is purely assumption that he can do as much in five days.

There is an economic loss in the five-day work week and, unless all manufacturers adopted a five-day work week, it would create such differences in the cost of production that prices would be affected, and they would be compelled to

return to the five and one-half day work week.

Unless every manufacturer in each industry works the same number of days or hours, the resulting inequalities would prove the failure of the plan.

In regard to Henry Ford's adoption of this change in working time, all manufacturers regard it, on his part, simply as a reduction in production to meet the falling off in demand for his product.

The question raised by this action of Henry Ford's is not of moment at this time and will not create any change in industry generally.

Robert P. Lamont, president, American Steel Foundries, Chicago:

Considering only his own business, Mr. Ford's announcement of a five-day week just before the meeting of the American Federation of Labor in Detroit was wise and timely. It no doubt fits perfectly into his present situation and will produce the required output at no increase in unit cost.

That the plan is not generally applicable at this time is evidenced by the fact that it is not to apply to blast furnaces or steel mills of the Ford Company. It will not have any more effect on the general situation than the earlier announcement of a uniform six-dollar-a-day wage.

It is not so long ago since a twelve-hour day was not unusual in many industries. There has been a gradual reduction in the hours worked per day and per week in industry generally and no doubt this will go somewhat further, but such changes will come gradually and as industry can adjust itself to them.

Philip T. Dodge, president, Mergenthaler Linotype Company, New York:

I am strongly of the opinion that it is impossible to establish in all industries the five-day week. However, in industries in which parts are duplicated in great numbers, mainly by machinery requiring little hand-work, and where products are sold at a large advance above cost, for example, in certain vehicles, the five-day week may be feasible. Certain it is that it could not be generally applied in the industries.

George L. Markland, Jr., chairman of the board, Philadelphia Gear Works:

The *work* of this country cannot be done in forty hours a week. I see in the movement a trend toward the *Arena.* Rome did that and Rome died. Most people who work do so with their hands and feet with no joy in their work forgetting their heads except their mouth.

The installment plan of buying is so prevalent throughout the country that there may be no reduction in the pay envelope, and with so much more time for the Arena the demand for things will increase while the production of things will decrease and without production there will be no profit, without profit there will be no work. Then we may all go to the Arena. The men of our country are becoming a race of softies and mollycoddles; it is time we stopped it and turned out some regular he-men—too many paternalistic laws by City, State and Nation. Any man demanding the forty-hour work week should be ashamed to claim citizenship in this great country. I see in it a gradual sinking into decay.

D. M. Weir, vice-president, Weirton Steel Company, Weirton, W. Va.:

The efficacy of a five-day week is somewhat doubtful even though the business or industry can accommodate itself to such a plan as seemingly can be done in automobile building.

In the five-day week the human element is the most important consideration. Eight hours work for five days or forty hours, leaves much time for recreation. Men working eight (8) hours hardly need more than that amount of sleep. That leave seventy-two hours per week for recreational purposes, or over ten hours per day. This additional eight hours of recreation coming on Saturday makes a long weekly holiday period, which will provide an excellent opportunity for additional expenditures.

From a financial standpoint it is hard to conceive labor can benefit by such a plan and it is reasonable to believe it would be but a short time until increased wages would be necessary to meet the increased expense incurred through the added holiday.

Is the human element being abused by forty-eight hours work? Certainly not in most lines.

Charles R. Sligh, president, Sligh Furniture Company, Grand Rapids, Mich.:

There are many industries in which, of course, it would be practically impossible to conform to these hours. The billions of dollars that are invested in the United States in manufacturing plants cannot afford, from an economical standpoint, to be utilized only forty hours per week. The taxes, interest on borrowed money and interest on investment will go on just the same whether plants are worked forty-eight and fifty hours a week or only forty.

This shortening of the hours would inevitably lead to an increased cost of living without any assurance that there would be an increased wage paid. The industries of the United States and the vast accumulation of wealth here has not been made through idleness but through industry and, in my opinion, it is a very regrettable fact that one occupying the position that Henry Ford does in the industrial world should for any reason expect to benefit industrial conditions by so much idleness.

H. W. Cook, president, A. E. Nettleton Co., shoes, Syracuse:

It is self-evident that manufacturers of automobiles will agree with Mr. Ford and favor shorter working schedules for all workers in industry. As recreation periods each week become longer, more automobiles will be required and consumed by use during such periods.

Too much leisure would unquestionably be bad for the working man.

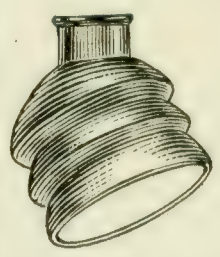
Granted that present conditions are much more pleasing and conditions resulting, much more desirable, are they not as far as we can safely go for the present? With the Farmer still working long days and jealous of the leisure of the man in industry, can we, who look to him to a very great extent for our market, afford to antagonize him and make him still more unhappy about his own condition?

Of great importance, too, is the question of whether we are going to be able to compete in the world's markets, including our own, with our higher wages and shorter hours, against the lower wages and long hours of foreign labor.

For many years, since the War, the balance of trade has been greatly in our favor, but is now rapidly becoming equalized, and the imports of manufactured articles are becoming a real menace to some industries.

So far as domestic business is concerned, a sufficiently comprehensive and elastic tariff could be made protective enough to safeguard against any present difference, or any that might be made in the future in costs, due to our labor conditions. It would, admittedly, be unsafe to base changes upon a definite tariff policy. Our political parties are as far apart in their tariff views as the extremists on the question of working hours.

Again, if all manufacturers were actuated by a selfish purpose, and could protect themselves, as Mr. Ford does, by establishing three shifts of eight hours each in every twenty-four hours, they



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might not care how many days a week for working might be established as a correct schedule.

Unfortunately, very few manufactured products lend themselves to a processing covering three shifts a day of continuous operation.

I feel strongly that we should go slowly.

Charles B. King, vice-president and general manager, the Marion Steam Shovel Company, Marion, O.:

As to good or bad effects resulting from the establishment by Henry Ford of the five-day work week in his plant, my opinion is that if there is any effect at all on the country in general from such a policy, it certainly will be bad rather than good.

If the five- day work week was established to curtail production in the Ford plants on account of decreased sales, it could probably be considered as good policy in order to retain the greatest number of employes on the payroll, at the same time reducing production by shortening the number of hours per week.

If, on the other hand, it was done with the thought of establishing a policy that might be followed by other manufacturers throughout the country, then the ill effects would be obvious—production would be curtailed and costs increased. When any movement results in reducing production and increasing costs, the public necessarily suffers, industrial progress is retarded, and an uneconomic condition is created.

John E. Edgerton, president, National Association of Manufacturers and president of the Lebanon Woolen Mills, Lebanon, Tenn.:

It is, of course, always possible for it to become uavoidably necessary for individual plants to shorten their hours or weeks under varying economic pressures. But let us not confuse the mandates of good business with the instincts of humanitarianism, nor mistake the disguised suggestions of economic necessity for the discovery of a superior economic formula. If a man does as much work in five days as he has been doing in six, either his energies are accelerated at the expense of his physical welfare or he has not been working as he was obligated to do; and if he be paid as much for five days' work as he has been paid for six, then either he has been paid less than a just wage or is receiving at the hand of charity pay for one day more than he is economically entitled to.

It is time for America to awake from its dream that an eternal holiday is the natural fruit of material prosperity, and to reaffirm its devotion to those principles and laws of life to the conformity with which we owe all of our national greatness. I am for everything that will make work happier, but against everything that will further subordinate its importance in the program of life.

Clarence E. Whitney, president and general manager, the Whitney Manufacturing Company, Hartford, Conn.:

I believe benefit will result for Mr. Ford, as he has made a wonderful record by efficiency, and it is probable he is not adopting an inefficient program at this time for his particular requirements under existing conditions.

The Ford plant is so highly specialized, it can, to a large extent, operate twenty-four hours per day for five days a week, thereby having use of the enormous investment in plant and equipment, for a greater number of hours per week than most other concerns can economically operate.

If the standard of one great manufacturer, having conditions different from others, should be thrust upon all manufacturers by legislation, the economic consequences would be serious.

Mr. Ford, I believe, could not operate all of his departments on a uniform program. If he were to make difficult special tools or machinery, on a mass production program, twenty-four hours per day, three shifts, passing the delicate work from one shift to another, I believe chaos would quickly result from the divided responsibility.

I cannot see the slightest danger for other employers, confronted with different problems and different conditions, so long as existing work laws are unaffected.

H. B. McCormac, president, Virginia Woolen Company, Winchester:

It may be that a shorter work week is necessary or desirable in the manufacture of automobiles. In this line of industry the most efficient mechanical equipment is used and the most intensive application of the workers' attention is required.

For other classes of industry a forty-hour week would certainly be harmful. The consequent reduction of units produced would considerably increase the cost. An increase of cost has always been regarded as decreasing consumption, and to this extent a reduction in the hours of the working week would be a step backward, rather than forward.

If we are to have equality of prosperity among occupations, we must have equality of industry, skill and intelligence or training. We need more goods—we can enjoy more leisure. Let's produce the goods and the leisure will follow.

Paul J. Kruesi, president, Southern Ferro Alloys Company, Chattanooga, Tenn.:

The public impression is exceedingly wide spread to the effect that Ford's present sales have dropped to the point where his normal force can readily make in five days all the cars his agencies can sell in six days. The rest of the country is content to wait and see whether in say a year's time, the Ford productin in five days equals what he used to produce in six, which I believe is his contention.

My own view is that the destruction of economic wealth resulting from the World War was on such a colossal and incomprehensible scale (even in this country where we built and then scrapped billions of dollars worth of ships, shipyards, nitrate plants and army supplies) that the work of the world cannot in this generation be done in five eight-hour days per week.

This is said without derogation to Mr. Ford, or lack of sympathy with the idea of ameliorating the condition of labor.

William W. Coleman, president, the Bucyrus Company, steam, gasoline and electric shovels, cranes, etc., South Milwaukee, Wis.:

It is true that during recent years the more efficient application of power, the increased productiveness of machine tools and like advances in the mechanical arts have resulted in obtaining the same or a larger product in less time. As far as can be determined from newspaper reports, there has been no claim made that the shorter week adopted by the Ford plants has resulted from any improvement in manufacturing processes.

If the action of the Ford Company was the result of a lessening demand for Ford products, a shorter work-week can readily be understood, for it would certainly be more economical to turn out a five-day week product in five days than to spread it over five and one-half or six days. Under such circumstances any discussion of the matter is entirely unnecessary.

Up to the present moment there does not seem to be any important reason why the action of the Ford Company should give much concern to manufacturers or employes generally, for what one concern may be able to do under one set of circumstances does not generally apply to an industry or trade at large.

(*To be Continued.*)

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soul with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
rchitectural Cast Cut Stone Co.....Westmont, N. J.

AREA GRATINGS
:ving Iron Works.....1015 Chestnut St., Phila.

ARTESIAN WELLS
idpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES
obbins, Chas. H., Co. ....1729 Sansom St., Phila.
he Atlas Blue Print Co.....34 S. 16th St., Phila.
Veber, F., Co. .....125 S. 12th St., Phila.
Veil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS
lue Print Shop .....1520 Sansom St., Phila.
obbins, Chas. H., Co. ....1729 Sansom St., Phila.
he Atlas Blue Print Co.....34 S. 16th St., Phila.
Veber, F., Co. .....125 S. 12th St., Phila.
Veil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER
lue Print Shop .....1520 Sansom St., Phila.
obbins, Chas. H., Co. ....1729 Sansom St., Phila.
Veber, F., Co. .....125 S. 12th St., Phila.
Veil, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS
ivezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK
ox, Janeway, & Co..Real Estate Trust Bldg., Phila.
. M. & C. M. Siner.Church and Tacony Sts., Phila.
xcelsior Brick and Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving)
etcham, O. W. .....121 N. 18th St., Phila.

BUILDERS
itchell Bros. .....2125 Race St., Phila.
oseph Rotornado .....4740 Milnor St.. Phila.

BUILDERS' HARDWARE
evitt, Paul J. .....1101 S. 2nd St., Phila.

BUILDERS' SUPPLIES
ervice Supply Corporation,
20th and Venango Sts., Phila.
he Van Sciver Corporation,
The Parkway at 24th St., Phila.
Vest Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK
uskey Mfg. Co...Columbia and Howard St., Phila.

CAST STONE
rchitectural Cast Cut Stone Co.....Westmont, N. J.

CEMENT
he Van Sciver Corporation,
The Parkway at 24th St., Phila.
Vest Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK
'Lauro, John .....7732 Ardleigh St., Phila.
assiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
ivezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)
earce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE WORK
assiah, Frederick..Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
ee T. Ward Co. .....617 Filbert St., Phila.
ervice Supply Corporation..20th and Venango Sts.

CORK FLOORING
ivezey, John R..
Glenwood Ave., w. of 22nd St., Phila.
elby Battersby & Co. .....810 Noble St., Phila.

CURTIS WOODWORK
illingham Co.....Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS
uilding News Pub. Co.....1530 Chestnut St., Phila.

DAMPPROOFING
nti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
arnett Bingswanger.....829 N. 3rd St., Phila.
oncrete Waterproof Paint Co..829 N. 3rd St., Phila.
aster Builders Co. .....Otis Bldg., Phila.
ruscon Laboratories .....1505 Race St., Phila.

DOOR BEDS
urphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS
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Entered at the Philadelphia Post Office as Second-Class Matter

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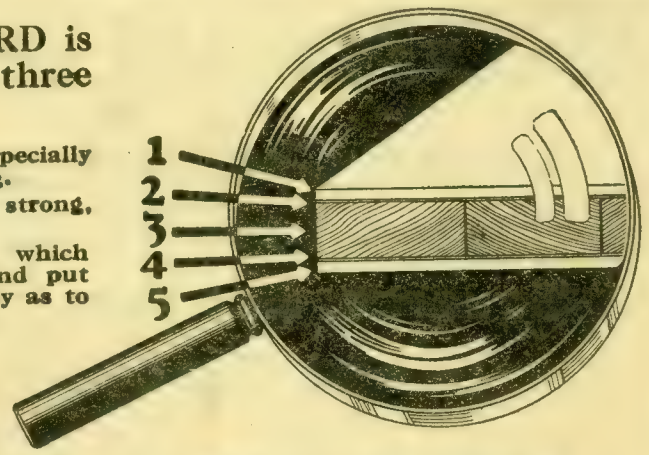
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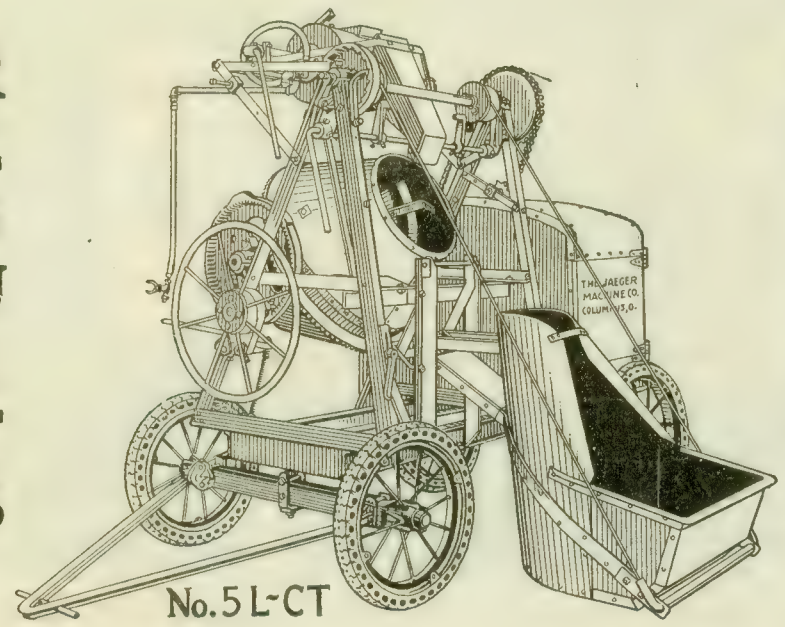
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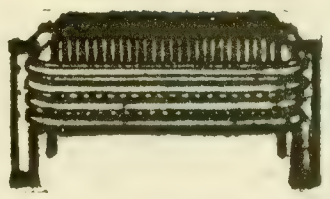
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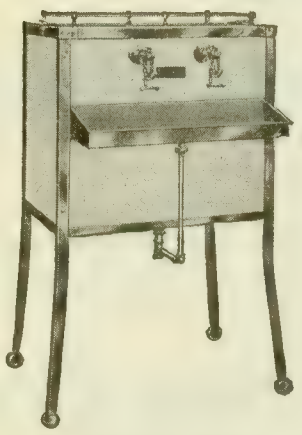
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 44

PHILADELPHIA
November 3, 1926

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As The Editor Sees It

FIVE-DAY WEEK A MENACE; WOULD INCREASE LIVING, LOWER PRODUCTION AND GIVE EUROPE BIG ADVANTAGE

Presidents of Numerous Large Establishments Employing Thousands Upon Thousands of Workers Believe Henry Ford's Scheme May Be All Right to Meet Sales Conditions But is Too Impracticable and Dangerous For All Industries

(Continued from last week)

E. B. Leigh, president, Chicago Railway Equipment Company:

In such a plant as that of the Ford Motor Company the five-day week could easily be made the means of meeting a lessened demand and over-production. There also are doubtless other industries, particularly those operating under a five-and-a-half day week, to which it could be applied with economic advantage, as, for example, those in which the workers are on a "piece work" basis of compensation, and without any substantial reduction in output, or lessened earnings to the workers. In some departments of our own industry we have found this to be true. It would not, however, apply to all industries.

On the other hand, where the workers are on a "per hour" basis of compensation, the shorter week would undoubtedly mean both lessened production for the plant and reduced earnings for the worker.

From the social standpoint the shorter week could be made advantageous to the worker, should he utilize the added leisure time in such ways as would contribute to his health, enjoyment and happiness.

George F. Reynols, the Portland Company, Portland, Me.:

It is hardly fair to judge the whole country by what Henry Ford does. Evidently he believes a five-day-work week is good for his business or he would not put it into operation.

I doubt if it has any effect on the rest of the country, either good or bad, as I believe the majority of industries will continue to work half a day Saturday unless there is some special reason to the contrary.

I do not believe that the average working man cares to have too much time on his hands, and he is much happier and more contented to be working, earning money, than he is to be loafing.

Robert J. S. Schwarzenbach, president, Schwarzenbach, Huber & Co., New York:

I doubt whether the time has come where five-day operation universally applied will produce the goods which the world needs, at a price which it can afford to pay. And if it has come, the question even then is open whether the five-day week—with a two-day week-end—is the best form for a cut.

Personally, I feel that cut operations, whether of a single or double shift nature, should be distributed over the Biblical six days of the week, for the reason, perhaps, that a two-day vacation every week interferes too much with good regular habits. It can be urged, of course, that the present Sunday so does now. But a Sunday of rest is one thing, and a hectic week-end—to which a two-day idleness so easily leads—is another. If the point should be made that some of us seem to enjoy the two-day week-end, I will say that, if a fact, it does not prove the two-day week-end a good intsitution.

H. C. Atkins, president, E. C. Atkins, & Company, saws, Indianapolis, Ind.:

The tendency in the United States has been toward shorter hours, larger wages

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and the net result of the whole proposition is coming to the point where sooner or later industry in the United States is going to be like a "dog chasing its tail."

Enforced attention to business in my estimation is in the long run productive of better citizens than enforced idleness. The position of the United States at the present time, outside of one or two industries, does not justify enforced idleness, especially where that idleness is paid for by some one, somehow. What we need in industry in the United States is a policy which will enable us to command not only our own market, but foreign markets, and if God-given daylight and time is wasted by American industry, as it will be on a five-day week, somebody else is going to take advantage of that waste.

I am not so particularly interested in what the Ford Motor Car Co. may have in its mind in cutting down production as I am in the general proposition of the greatest good to the greatest number.

Fayette R. Plumb, president, Fayette R. Plumb, Inc., hammers, hatchets, files, axes, etc., Philadelphia and St. Louis:

Looking at the question of a five-day week from the standpoint of the worker rather than that of the employer, it appears to me that he must decide first whether he wants a lower standard of living with less work or to keep on raising his standard by sharing in the benefits of increased production, brought about by improvements in mechanical processes and management. If the movement for a 48-hour week to a 40-hour week should be gradual, improvements in the manufacturing and distribution processes might so offset the loss of "manpower hours" as not to cause any actual decline from the present standard of living; but it would keep the standard from rising as it otherwise would.

The only condition under which this would not be so, would be if the total production per man per week would be as great in 40 hours as in 48 hours, all other conditions being the same. As a matter of fact a uniform work week for all industries is a fallacy.

James F. Dewey, president, James F. Dewey Company, Quechee, Vt.:

Nothing to my mind could be worse for the working people of our country than the five-day week. To the majority of us the more time we have for idleness the more we spend.

Henry Ford has merely stirred up the old question, but it does not do any good as it gets us nowhere, but it does cause unrest. Idleness has never brought happiness. There is a great truth in that old law:

"Six days shalt thou labor."

Let us do it and be thankful for the privilege.

Joseph C. Kimball, of Kimball & Sherman, Haverhill, Mass.:

Undoubtedly a five-day week may fit into certain conditions in industry, especially when incoming orders slow up and a given demand can be supplied by part-time operation in the producing factory, but generally speaking, the length of the working week should be regulated by economic considerations rather than by legislation.

Increasingly, industrial products are becoming seasonal and should be so treated even in the length of time spent in their production. Especially is this fact apparent in all articles of wearing apparel and such as are molded or regulated by the element of style.

Good authorities state that style today, particularly in wearing apparel, is 75 per cent of the value of a contract and no unnecessary restrictions should be inflicted on industry from any source.

Competition in the foreign field is becoming more difficult and if the United States is to be a factor in export, all interested branches must contribute their part, whether it be capital, management or employe.

William L. Deming, president, The Deming Company, power pumps, hydropneumatic water supply systems, Salem, O.:

It seems like another drastic innovation on the part of Mr. Ford. If the writer were an intimate friend of his, he might be tempted to call Mr. Ford "Alibi Henry," because he apparently wishes to have it thought that his business conditions are independent of his decision to make the change in working hours.

It looks to us as though Mr. Ford is taking this course on account of the diminution of the amount of orders for his product, and as he got away with his plan of some years ago of paying no workman less than five dollars ($5.00) per day, he probably thinks that this proposition will also succeed.

The tendency for a time evidently will be to cause dissatisfaction among the employes in other factories and in other lines.

It looks to the writer as though it would be better for Mr. Ford to add another type of automobile to his product

(Continued on page 706)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Toilet and Locker Building, Hunting Park and York road, Nicetown and Wingohocking street, Philadelphia, $50,000. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Fairmount Park Commission, A. Corson, City Hall, Philadelphia. Brick, limestone, 1 story. Plans in progress.

Church, Tenth street and Northeast Boulevard, Philadelphia, $175,000. Architect, Ralph Bencker, Bellvue Court Building, Philadelphia. Owners, First Christian Church, Rev. Carl Agee, Tenth street and Northeast Boulevard, Philadelphia. Stone, limestone, 1 story, 90x200 feet. Plans in progress. Architect will take bids in one month.

Residence, Chestnut Hill, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, Samuel Bell, 3rd, 7816 Roanoke street, Philadelphia. Stone and half timber, 2½ stories, 24x100 feet, shingle roof, cement and hardwood floors, hot water heat, electric light, tile and marble work. Architects taking bids due November 9th at noon.

Bank and Apartment House, Seventeenth and Tioga streets, Philadelphia. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Tioga Trust Co., Seventeenth and Tioga streets, Philadelphia. Brick, steel, limestone, 8 stories, mezzanine and basement, 93x50 feet, Barrett, gypsum or Johns Mansville roof, composition, concrete, linoleum floors, hollow tile ,elevators, roof ventilators, integral waterproofing; architectural terra cotta, metal lath, tile, marble and terrazzo work, rolled steel and hollow metal sash, kalamein and hollow metal doors, bond, iron stairs, ornamental iron work, pneumatic tubes, metal toilet partition, rubber tile floors, area gratings, steel casement sash, simplex partitions. Architect taking bids due November 6th.

Two-Car Garage and Apartment, 8005 Palmetto street, Fox Chase, Pa. Architects, Lippincott & Schaef, 11 South Sixteenth street, Philadelphia. Owner, William Amos, care of architects. Brick, clapboard, 2 stories, 19x24 feet, wood shingle roof, cement and pine floors, hot water heat, electric light. Architects taking bids.

Building, Bread and Arch streets, Philadelphia. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Berger Brothers, 229 Arch street, Philadelphia. Corrugated iron, 1 story, 21x50 feet, slag roof, cement floors, plumbing. Architect taking bids due as soon as possible.

Apartment House, Southwest Corner Forty-first and Westminster avenue, Philadelphia. Architect, W. L. Charr, Victory Building, Philadelphia. Owner, care of architect. Steel, stone, brick, 3 stories, 73x102 feet, oil vapor heat, electric light, tile, marble and terrazzo work, metal lath, hollow metal sash and skylights, fire and kalamein doors, bond, metal bulks, iron stairs, ornamental iron work, cast stone, waterproofing and dampproofing, metal ceilings, slag roof, maple and hardwood floors. Plans in progress.

Sub-Station (alts. and add.), Wagon Shed and Stable, 1508 North Twenty-fifth street, Philadelphia, $15,000. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Scott-Powell Co., Forty-fifth and Parrish streets, Philadelphia. Plans in progress. Ready for bids in one week.

Residence and Garage, West Mt. Airy avenue, West of Greene street, $18,000. Architect, George S. Idell, Corn Exchange Building, Philadelphia. Owner, George H. English, 72 West Chelten avenue, Philadelphia .Stone, 2 stories and basement, 25x80 feet, slate roof, hardwood floors, cement work, hot water heat, electric light, metal lath, tile work, steel basement sash. Owner will build and is taking sub-bids.

Fire Station, 4445-51 Main street, Manayunk, Philadelphia. City architect, John Molitor, 1315 Walnut street, Philadelphia. Owners, Department of Public Safety, City Hall, Philadelphia. Brick, steel, 2 stories and basement (plumbing, heating and electric separate), slag roof, cement and composition floors, metal weather strip, metal lath, tile and marble work, rolled steel sash, ornamental iron work, dampproofing. Plans in progress. Ready for bids in a month.

Fire Station, Foulkrod and Darrah streets, Philadelphia. Architect, John Molitor, City Architect, 1315 Walnut street, Philadelphia. Owners, Department of Public Safety, City Hall, Philadelphia. Brick, seeel, cut stone, 2 stories and basement (plumbing, heating and electric separate bids), slag roof, cement and composition floors, metal lath, tile and marble work, rolled steel sash, metal weather strip, dampproofing, ornamental iron work, bronze tablet, steel lockers. Owners ready for bids in 10 days.

Crystal Pool (alts. and add.), Woodside Park, Philadelphia. Architect, Edward Schoeppe, 316 South Fifteenth street, Philadelphia. Owners, Woodside Real Estate Co., Woodside Park, Pa. Carpentry and mill work, slag roof, sheet metal work, structural steel, hardware (painting and glazing, plumbing and drainage, concrete and excavation and foundations, electric work, iron rails all reserved). Architect taking bids due as soon as possible.

Miscellaneous Paving, Philadelphia. Owners Department of Public Works, Bureau of Highways ,232 City Hall. Owners taking bids due November 4th at noon. Certified check 5 per cent. Asphalt paving, asphalt repaving, redressed granite block repaving, country road improving, miscellaneous gray iron castings.

Residences (52), Garages (24), Sommers road, North of Wooster road, $248,000 total. Architect, private plans. Owner, Jesse Storck, 1611 Walnut street, Philadelphia. Brick, 2 stories, 15x36 feet, 11x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light, garages, 1 story, 10x20 feet. Permit issued.

Store and Residence (alts.), 1813 South street, Philadelphia, $8,000. Architect, private plans. Owner, W. J. Crosson, on premises. General alterations. Permit issued.

Residences and Garages (79), West side Pennway street, North of Herkness, $4,000 each. Architect, private plans. Owner, Meyer Gussman, 5403 Montgomery avenue, Philadelphia. Brick, 2 stories, 16x30 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (32), West side Hale street, South of Burns avenue, Philadelphia, $129,000. Architect, private plans. Owners, Hale Construction Co., 301 Fox Building, Philadelphia. Brick, 2 stories, 15x27 feet, 9x10 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (79), East side Pennway street, South of Garland street, $317,000. Owner, Meyer Gussman, 5403 Montgomery avenue, Philadelphia. Brick, 2 stories, 16x30 feet, 10x8 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Office and Residence, North side Ashwood street, West of Eighty-third street, $10,000. Owner, Frank Thompson, 8400 Tinicum avenue, Philadelphia. Brick, 2 stories, 32x62 feet, hardwood and pine floors, electric light. Permit issued.

Residences (23), East side Walker street, North of Sheffield street, Philadelphia, $118,000. Owners, Rader, Platt & Linton, 5415 Florence avenue, Philadelphia. Brick, 2 stories, 15x29 feet, 11x8 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Apartment House (add.), North side School lane, West of Wissahickon avenue, Philadelphia, $25,000. Architect, private plans. Owners, Alden Park Manor Co., Inc., Kenneth M. De Vos Co., on premises. Concrete, 1 story add., 42x62 feet. Permit issued.

Garage, Southwest Corner Fifth and Noble streets, Philadelphia, $15,000. Architect, private plans. Owners, American Stores Co., 424 North Nineteenth street, Philadelphia. Brick, 1 story, 100x100 feet, slag roof, cement floors, electric lighting. Permit issued.

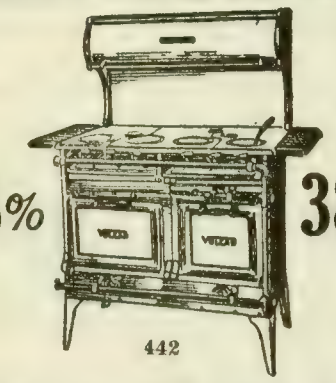
Residences (2), East side Tyson street, East of Dittman street, $14,000 total. Architect, private plans. Owner, Anton Ahlers, 7036 Cottage street, Philadelphia. Brick, 2 stories, 13x50 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Miscellaneous Work, Philadelphia. Owners,

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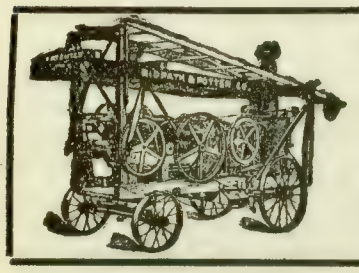


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Stores and Apartments (3), Elmwood and Massey streets, Phila. Architect, Jos. F. Lowery, Land Title Building, Phila. Owner, John M. Gallagher, Packard Building, Phila. Brick 2 stories, 60x60 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Owner will build.

Apartment House, N. E. Cor. 47th and Aspen streets, Phila. Architect, Edwin L. Rothschild, Bankers' Trust Building, Phila. Owner, Samuel L. Green, 916 N. 6th St., Phila. Brick, limestone, steel, 4 stories and basement, 100x50 feet, slag roof, oak and pine and cement floors, steam heat, electric light, metal lath, tile work, brass pipe. Owner will take sub-bids.

Residences (32), Brons Ave., N. of Devereux, Phila., $216,000. Architect, private plans. Owners, Fisher & Eskine, 4106 Westminster Ave., Phila. Brick, 2 stories, 15x27, 11x9 feet, electric light, slag roof, hardwood and pine floors, hot water heat. Permit issued.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Stenton Park Branch Dairy Building, Sixteenth and Courtland streets, Philadelphia. Architects, Stuckert & Co., Crozer Building, Philadelphia. Owners, Scott-Powell Dairy Co., Inc., Fortieth and Parrish streets, Philadelphia. Brick, steel, 2 stories and basement, 145x84 feet (plumbing, heating, electric work, cork insulation reserved), built-up asphalt roof, cement floors, metal lath, rolled steel sash and doors, bond, ornamental iron work, area gratings, architectural terra cotta. Contract awarded McBride Const. Co., 10 South Eighteenth street, Philadelphia.

Bakery (add.), 2901 Hunting Park avenue, Philadelphia. Architect, private plans. Owners, Tasty Baking Co., Mr. Megargee, on premises. Reinforced concrete, brick, six stories and basement, 110x160 feet, Johns Manville, asbestos built-up roof, concrete and brick floors, elevators, steam heat, electric light, rolled steel sash, fire doors, plumbing, waterproofing, rolled shutter doors. Contract awarded Turner Const. Co., 1713 Sansom street, Philadelphia.

Store and Apartment, Southeast Corner Twenty-first and Parrish streets, Philadelphia. Architect, William L. Charr, Victory Buildnig, Philadelphia. Owner, care of architect. Steel, brick, 3 stories, 33 feet 6 inches x 70 feet, slag roof, hardwood and composition floors, steam heat, electric light, metal lath, tile and marble work, hollow metal skylights, store fixtures, bond, flush bulks, ornamental iron work, metal ceiling, shoring. Contract awarded Kopetz Contracting Co., care of architect.

Improvements, Thirty-second, Thirty-third, Lippincott and Clearfield streets, Philadelphia. Architect, private plans. Owners, Church of St. James the Less, J. Wagner, on premises. Stone wall, concrete and cement work, iron fence. Contract awarded Curtis Grindrod, 10 South Eighteenth street, Philadelphia, $5,000.

Connecting Passage, between Rectory and School, Oak Lane, Philadelphia. Architect, George I. Lovatt, 223 South Syndenham street, Philadelphia. Owners, Church of the Holy Angels, Oak Lane, Philadelphia. Stone, 2 stories, 30x11 feet, slag roof, cement floors, mill work, plastering, painting and glazing, heating and lighting extension. Contract awarded D. W. O'Dea, 420 Duncannon street, Philadelphia.

Store (alts.), 1129 Chestnut street, Philadelphia, $3,500. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Elias Jacobs, on premises. Copper bulks, walnut backing, plate glass, tile and marble work, metal ceilings, electric work. Contract awarded Basch & Co., Ruan and Tackawanna streets, Philadelphia.

Mill Building, 1633-37 North Second street, Philadelphia. Architect, private plans. Owners, Keystone Spinning Mills, on premises. Brick, steel, 1 and 2 stories, 48x120 feet, slag roof, cement floors, rolled steel sash. Contract awarded Robert E. Lamb Co., 841 North Nineteenth street, Philadelphia.

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Garage, Northwest Corner Twenty-fifth and Oakford streets, Philadelphia, $30,000. Architect, private plans. Owner, C. E. Anders, 23 South Sixteenth stre et, Philadelphia. Brick, 1 story, 60x160 feet, slag roof, cement floors, electric work. Contract awarded to Clark & Tolins, 23 South Sixteenth street, Philadelphia.

Store Building, 1719 Chestnut street, Philadelphia, $80,000. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owner, J. Jadowich, 3300 Baring street, Philadelphia. Brick, 4 stories, 29x115 feet, slag roof, steam heat, electric light. Contract awarded to Barnett Co., 519 Pennsylvania Building, Philadelphia.

Apartment House (add.), 430-32 South Fortieth street, Philadelphia, $41,000. Architect, private plans. Owner, Louis Segal, 430 South Fortieth street, Philadelphia. Brick, 4 stories add., 34x23 feet, slag roof, hardwood and pine floors, electric light, heating extension. Contract awarded to Alexander Chambley, 229 New street, Philadelphia.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Contracts awarded: Main sewer, Aramingo, Sepviva and Butler streets, J. & R. Lombardi, Lincoln Building, Philadelphia, $150,621. Extension Sandy Run Main Sewer, Ryan Const. Co., Real Estate Trust Building, Philadelphia, $14,995.25. Contract No. 828, furnish and lay various pipe lines, M. & J. B. McHugh, 892 Markoe street, Philadelphia, $133,881.40.

Church (alts.), Northeast Corner Germantown avenue and High street, $7,000. Architect, private plans. Owners, First Methodist Episcopal Church, on premises. General alterations. Contract awarded to R. J. Whiteside & Sons, 2115 Wallace street.

Stack, Southwest Corner Frankford avenue and Richmond street, Philadelphia, $6,000. Architect, private plans. Owners, Ajax Metal Co., 46 Richmond street, Philadelphia. Contract awarded to M. Ward Easby Co., 1505 Race street, Philadelphia.

Swimming Pool, South side Earlham street, East of Pulaski avenue, $5,000. Architect, private plans. Owners, Wissahickon Boys' Club, Coulter and Pulaski avenue, Philadelphia. Contract awarded to Harrison, Merz & Emlen, Inc., 1713 Sansom street.

Residence (add.), 1016 Bainbridge street, Philadelphia, $3,800. Architect, private plans. Owner, Antonetto De Teo, 1016 Bainbridge street, Philadelphia. Brick, 3 stories add., pine floors, electric work. Contract awarded to Scurci & Macrame, 732 South Seventh street, Philadelphia.

School (alts.), Southwest Corner Tenth and Carpenter streets, $7,750. Architect, private plans. Owner, Dr. Francis Tabiane, 1915 South Broad street, Philadelphia. General alterations. Contract awarded to Donato & Puntillo, 1438 South Ninth street, Philadelphia.

Building (add.), 1129 North Third street, Philadelphia, $2,000. Architect, private plans. Owner, S. Snyder, on premises. Brick, 1 story add., 11 feet 6 inches x 27 feet. Contract awarded to H. Shumsky, 1310 South Second street, Philadelphia.

Residence (add. and alts.), 5401 Chester avenue, Philadelphia, $10,000. Architect, private plans. Owner, N. J. Edge, Fifty-fourth and Springfield avenue, Philadelphia. General alterations and additions. Contract awarded eo LeRoy K. Smith, 4007 Chester avenue, Philadelphia.

Residence, South side Orchard lane, West of Crestmont avenue, $8,000. Architect, private plans. Owners, Crestmont Farms Improvement Co., Torresdale, Pa. Frame, 3 stories, 46x32 feet, 16x6 feet, hot water heat, electric light. Contract awarded to Allen Scull, 4918 Osage avenue, Philadelphia.

Residence and Store (add.), 2828 West Girard avenue, Philadelphia, $4,000. Architect, private plans. Owner, S. Pressman, 2722 West Girard avenue, Philadelphia. Brick, 1 story add., 18x8 feet, slag roof, pine floors, electric work. Contract awarded to L. Fiedscher, 3147 Fountain street, Philadelphia.

Restaurant and Residence (add. and alts.), 700 North Forty-second street, Philadelphia, $3,500. Owners, James and Lulu Hardee, on premises. Brick, second story add., 16x9 feet, general alterations. Contract awarded to Ideal Const. Co., 4622 Market street, Philadelphia.

Residence, Northwest Corner Rhawn and Leonard streets, Philadelphia, $5,500. Architect, private plans. Owner, David Sims, Rhawn street and Northeast Boulevard, Philadelphia. Brick, 2 stories, 29x37 feet, asbestos roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Henry E. Durst, Rhawn and Castor road, Philadelphia.

Residence and Store (alts.), 511 South Seventeenth street, Philadelphia, $3,000. Architect, private plans. Owner, Joseph Allen, on premises. General alterations. Contract awarded to J. F. Trent, Nineteenth and Addison streets, Philadelphia.

Garage (add.), 4714-16 D street, Philadelphia, $2,000. Owner, James Hutton, Sr., 4712 D street, Philadelphia. Brick, 1 story add., 40x19 feet, slag roof, cement floors. Contract awarded to F. Crompton Sons, 4614 Oakland street, Philadelphia.

Residence, Wissahickon Ave. near Horter St., Phila. Architect, Louis A. Adams, Radnor, Pa. Owner, J. Somers Smith, on premises. Stone, 2½ stories and basement, 45x30 feet, slate roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Contract

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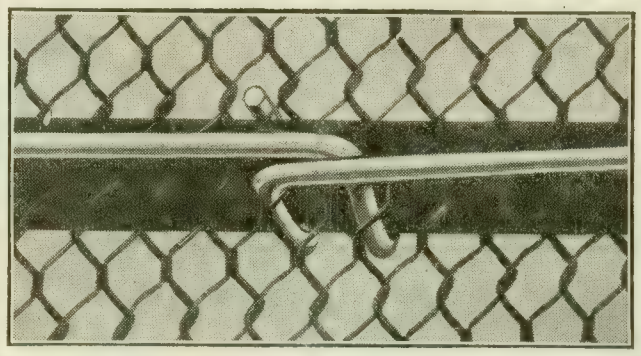
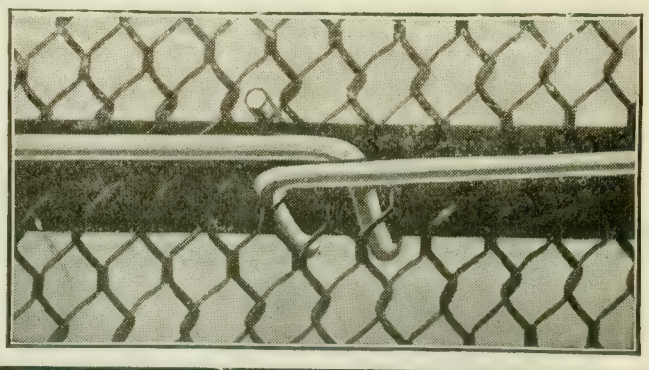
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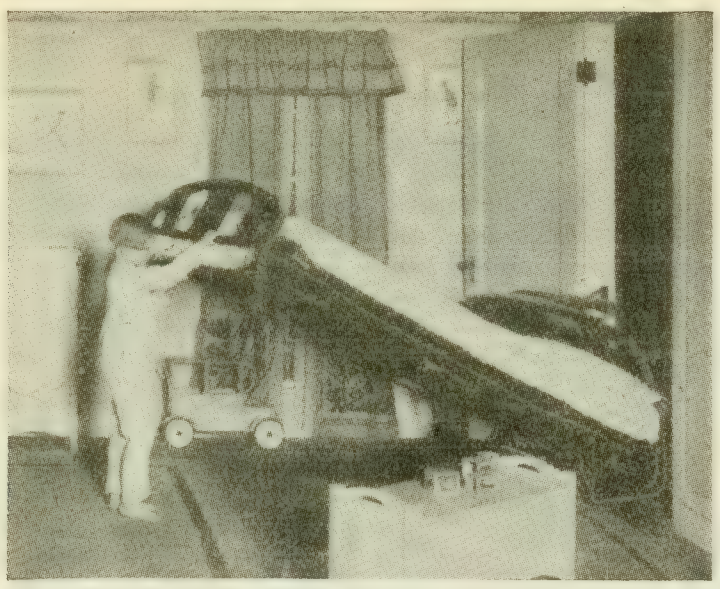
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awarded W. J. Gruhler Co., 219 High Street, Phila.

Store and Offices, Oxford Pike near Frankford Ave., Phila. Architect, private plans. Owner, Mrs. L. N. Deere, on premises. Brick, steel, 2 stories and basement, 20x92 feet, slag roof, oak and pine and cement floors, hot watter heat, electric light, metal lath, tile work, ornamental iron work. Contract awarded to Barnes Const. Co., 1828 Arch St., Phila.

Pennsylvania Construction News

House of Correction, Holmesburg, Pa. Architect, Philip H. Johnson, Widener Bldg., Phila. Low Bidders: H. E. Baton, 1713 Sanson St., Phila. $477,000, deduct for Administration Bldg., $90,000. Roberts & Roller, 1700 Walnut St., Phila. $489,000, deduct Administration Bldg., $90,800. Heat, W. Anderson, 600 Schuylkill Ave., Phila. $119,867, deduct Administration Bldg., $9,967. Plumbing, John Borden & Brother, 637 North 19th Street, Philadelphia, $80,977, deduct Administration Building, $7,819. Electric, W. V. Pangborne Co., 1927 W. Montgomery Ave., Phila. $48,861, deduct Administration Bldg., $7,230.

Storage Building, Chester, Pa. Architect, Ballinger .Co., 12th and Chestnue streets, Phila. Owner, Stevenson Cold Storage Co., Chester, Pa. Brick, 1 story, 80x130 feet, felt and slag roof, wood block floors, Monitor skylights. Architect taking bids due Nov. 10th.

Fire House, 320-22 Center street, Mahanoy City, Pa. Architect, John B. Thompson, 34 South Seventeenth street, Philadelphia. Owners, West End Fire Co., No. 5, Mahanoy City, Pa. Brick, 3 stories, 25x57½ feet. Architect selected. Plans in progress. Too early for details.

Parochial School, Kennet Square, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Patrick's Roman Catholic Church, Rev. A. C. Grady, Kennet Square, Pa. Stone, 6 rooms and auditorium. Sketches drawn.

Residence, Villa Nova, Pa. Architect, J. F. Lowery, Land Title Building, Philadelphia. Owner, name withheld. Stone, hollow tile, 2½ stories, 40x45 feet, slate roof. Plans in progress.

Apartment House, Llanerch, Pa. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, stone, 3 stories, 82x150 feet (39 apartments), slag roof ,hardwood floors, vapor heat, electric light, tile and marble work, Murphy beds, incinerators. Plans in progress.

Hospital, Carbondale, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, St. Joseph's Hospital, E. J. Healey, 9 North Main street, Carbondale, Pa. Brick, concrete, steel, 2 or 3 stories. Architect selected.

School (add.), Ashley, Pa., $20,000. Architect, T. H. Atherton, 139 South Main street, Wilkes-Barre, Pa. Owners, Ashley School District, L. H. O'Connell, Ashley, Pa. Brick, 2 stories and basement. Plans in progress.

Garage and Apartment, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, R. Mainker & Co., rear 246 North Sixth street, Allentown, Pa. Brick, steel, 3 stories, 50x120 feet, slag roof, composition and pine floors, vapor heat, electric light, steel sash. Plans in progress.

Assembly Hall (alts. and add.), Bustleton, Pa. Architect, C. H. Fries, Drexel Building, Philadelphia. Owners, St. Luke, the Beloved Physician, Church, Bustleton, Pa. Stone, 16x20 feet, 10x30 feet, hot water heat, electric light, tile work, wood shingle roof, maple floors. Revised plans in progress. Ready for bids in two weeks.

Bank Building, Garrett road, Upper Darby, Pa. Architects, MacKenzie & Wiley, Bankers' Trust Building, Philadelphia. Owners, Suburban Title & Trust Co., care of George Wilcox, Upper Darby, Pa. Limestone, 2 stories, 50x100 feet, vapor heat, electric light, plumbing, marble work, cast iron work, caen stone, bronze work. P. J. Lawler, Upper Darby, Pa., taking sub-bids **due November 4th.**

Residence and Garage, Overbrook Hills, Merion, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owner, Rev. W. Edward Jordon, care of architect. Brick, hollow tile, stucco, 2½ stories and basement, 1½ stories and basement, 60x40 feet, garage 19x15 feet, shingle roof, oak, pine and cement floors, plumbing, ornamental iron work, bond, tile work, metal lath, electric light, hot water heat, area grilles. Architects taking bids due November 4th.

Garage and Apartment, Northampton, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Michael Budinetz, Northampton, Pa. Brick, steel, 2 stories, 85x27 feet, slag roof, concrete and hardwood floors, steam heat, electric light, metal lath, tile work. Owner taking bids.

Residence and Garage, College Heights, Easton, Pa. Architect, William M. Michler, Drake Building, Easton, Pa. Owner, Charles S. Knight, Sullivan street, Easton, Pa. Indiana limestone, hollow tile, 2½ stories, 80x33 feet, 24x40 feet, tile roof, hardwood floors, tile work, electric light, Warren Webster heat, oil burner. Architect taking bids due November 25th.

Residence No. 73, Meadowbrook, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories and basement, 29x72 feet (plumbing, heating, electric reserved), metal lath, tile work, bond, ornamental iron work, slate roof, oak and pine floors. Architect taking bids due as soon as possible.

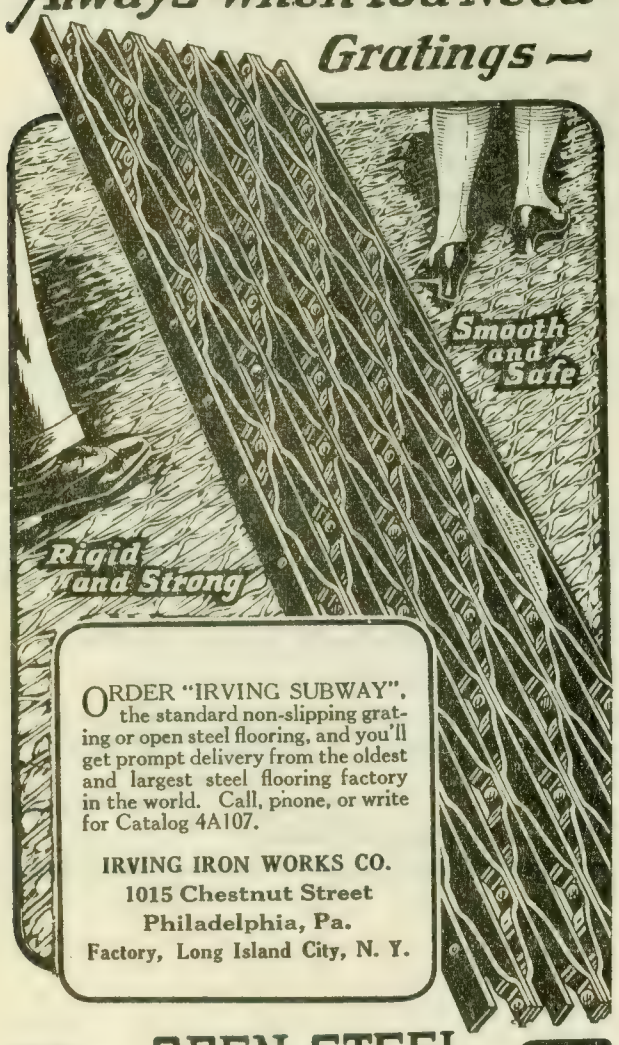
Residence and Garage, Lot No. 4, Rock road and Dale road, Meadowbrook, Pa. Architect, C. A. Ziegler, 1012 Walnut street, Philadelphia. Owner, Wayne Herkness, Land Title Building, Philadelphia. Stone, 2½ stories. Architect taking bids due November 8th.

Bridges (3), St. Denis on Eagle road over Cobb's Creek, Haverford Township; Edgemont Township Bridge; Sicamore Mills Bridge. County engineer, George Wright, Chester, Pa. Owners, Borough Committee, Chester Township, Chester, Pa. Reinforced concrete. Plans in progress.

Pennsylvania Contracts Awarded

Junior High School, Red Lion, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Red Lion School Board, Red Lion, Pa. Brick, steel, cut stone,

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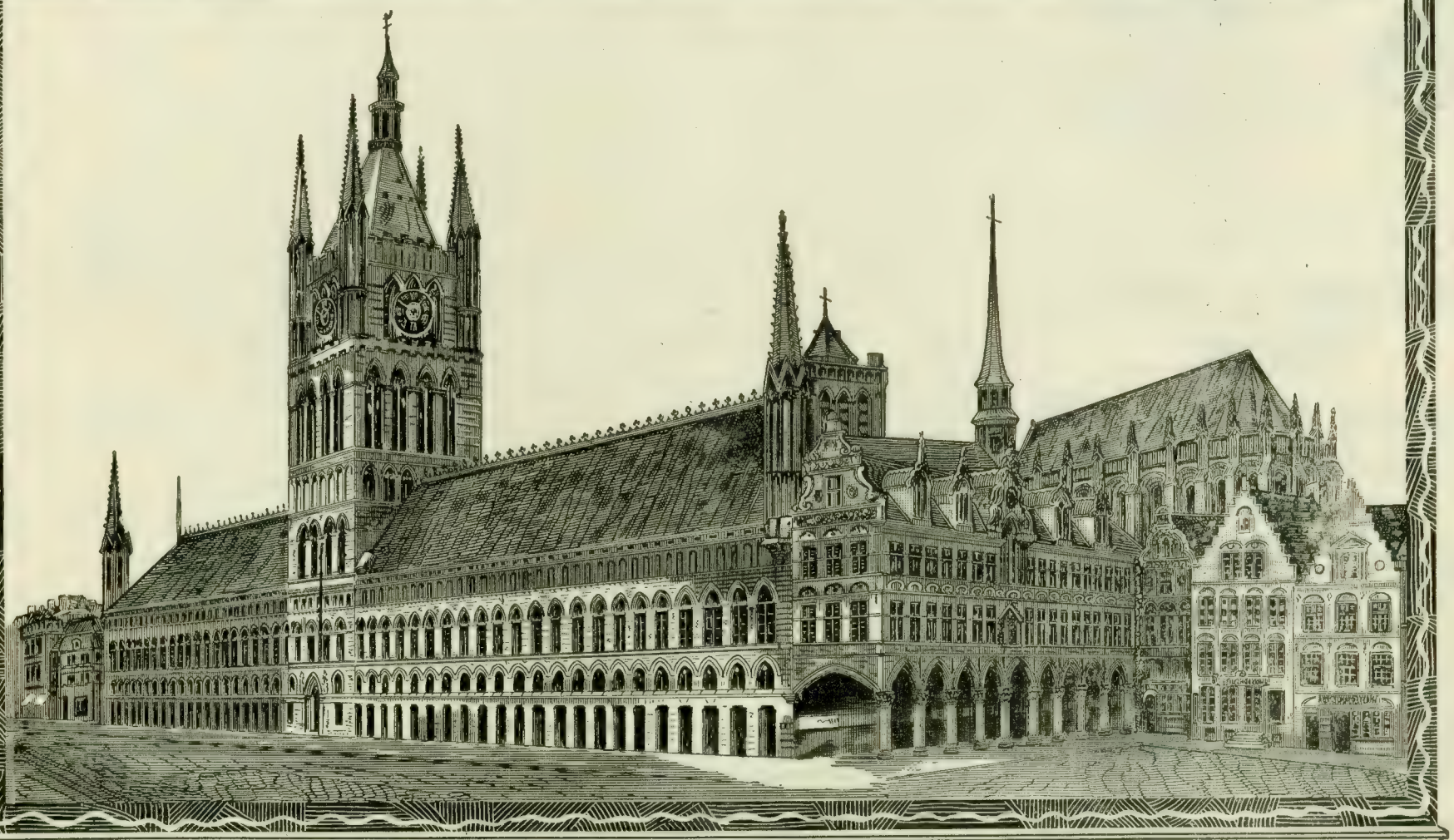
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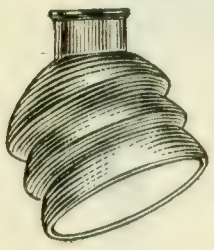
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2 and 3 stories and basement, 172x115 feet, slag and composition roof, cement and maple floors, hollow tile, roof ventilators, metal lath, terrazzo, steel sash, ornamental iron, cinder concrete block. Contract awarded to Jacob S. Foose, Harrisburg, Pa., $76,716.38. Plumbing and heating to M. H. Baker & Co., Inc., Harrisburg, Pa., $19,320. Electric to Conestoga Electric Co., Lancaster, Pa., $2,895.

Apartment House, Spring and Park avenues, Elkins Park, Pa. Architect, A. W. Hall, Otis Building, Philadelphia. Owners, Prince George Apartment Corporation, care of T. S. Hargesheimer & Co., Packard Building. Brick, concrete, cut stone, steel, 4 stories and basement, irregular in size, electric light, steam heat, metal lath, tile, marble and terrazzo work, slag roof, cement, oak and pine floors, elevators, painting and glazing, refrigerating equipment, kalamein doors, bond, ornamental iron work, incinerator, dumb waiter. Contract awarded A. V. Gilchrist, Drexel Building, Philadelphia.

Monsignor Masson Memorial School, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Sacred Heart Hospital, 421 Chew street, Allentown, Pa. Brick, stone, steel, 3 stories, 66x120 feet, built-up roof, hardwood floors, hollow tile, safety treads, roof ventilators, waterproofing, dampproofing, ornamental iron, iron stairs, fire doors, steel sash, metal lath (heating, plumbing and electric reserved). Contract awarded to Ochs Const Co., 440 Wire street, Allentown, Pa.

Theatre, Lodge, Stores and Apartments, Mt. Carmel, Pa. Architect, Willis A. Hall, Upper Darby, Pa. Owners, Sons of Veterans, Burnside Post, Mt. Carmel, Pa, Brick, stone, concrete, 1 story and 2 stories, 150x112 feet, hardware and cement floors, hot water heat, electric light, fire doors. Contract awarded E. R. Bastress, Mt. Carmel, Pa.

Church, Lewistown, Pa. Architects, Bolton & Son, Schaff Building, Philadelphia. Owners, Trinity Reformed Church, H. E. Knepp and J. E. Rupley, on premises. Stone, 2 stories and basement, 80x120 feet. Contract awarded W. D. Steinbach, Lewistown, Pa.

Church, State College, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, State College Baptist Church, State College, Pa. Contract awarded F. D. Beyer, Tyrone, Pa.

Building (add.), Oakes, Pa. Architects, Osborne Engr. Co., Cleveland Ohio. Owners, Philadelphia Rubber Works Co., Oakes, Pa. Brick, 1 story, 50x220 feet, slag roof, cement floors, rolled steel sash. Contract awarded Frank R. Heavner, Norristown, Pa.

Passenger Station, Frackville, Pa. Architect, Samuel T. Wagner, Twelfth and Market streets, Philadelphia. Owners, Reading Railroad, Twelfth and Market streets, Philadelphia. Concrete block, stucco, brick, 1 story, 17x35 feet, slate roof, cement floors, pine floors, plumbing, hot air heat, electric light, metal lath, bond, ornamental iron work, cut stone. Contract awarded Andrew Breslin, Summitt Hill, Pa.

Office Building, Northwest Corner Ninth and Hamilton streets, Allentown, Pa. Architects, Helmle & Corbett, 132 West Forty-second street, New York. Owners, Pennsylvania Power & Light Co., P. B. Sawyer, vice-president, 802 Hamilton street, Allentown, Pa. Stone, steel, concrete, 12 stories, slag roof, steam heat, electric work. Contract awarded to Hegeman-Harris Co., Inc., 360 Madison avenue, New York.

Pennsylvania State Highway Work. Delaware County, R-132, A-4381, Trainor Borough. One course reinforced concrete. Contract awarded Bryant & Kohl, Inc., Wilkes-Barre, Pa., $91,264.80.

Elk County, R-99, Spur A, A-3910, St. Mary's Borough, Benzinger and Fox Townships. One course reinforced concrete. Contract awarded to E. C. Jones, Salamanca, N. Y., $156,191.28.

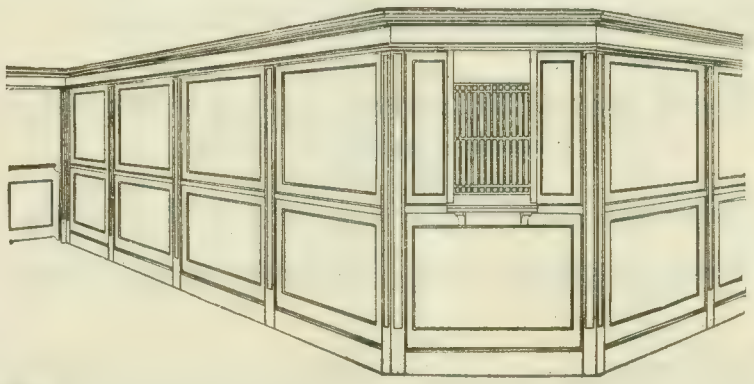
Somerset County, R-222, Winder Borough. One course reinforced concrete. Contract awarded to Sky Cont. Co., Johnstown, Pa., $38,652.25.

Clarion County, R-214, A-3151, B, Monroe Township. One course reinforced concrete. Contract awarded to F. S. Wilson, Kittanning, Pa., $90,980.97.

Potter County, R-318, A-4285, Genesee Township. Bituminous surface treated macadam. Contract awarded to D. L. Dennis, Galeton, Pa., $51,590.10.

Delaware and Montgomery Counties, R-516, A-4383, Radnor, Lower Merion and Haverford Townships. One course reinforced concrete. Contract awarded to Comerford Const. Co., Fifth and Sansom streets, Philadelphia, $131,125.94.

Residence, Elkins Park, Pa. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 S. 15th St., Phila. Owner, Dr. Silverman, care of architects. Hollow tile, stucco, 2½ stories, 58x24 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract

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Residence and Garage, North Glenside, Pa. Architect, E. G. Southey, Bridgeport, Conn. Owner, Miss Francis G. Yetman, care H. H. Wehmeyer, 509 West Cumberland Street, Philadelphia. Brick, frame, 2½ stories and basement, shingle roof, cement, oak and pine floors, plumbing, painting and glazing, hardware, hot water heat, electric light. Contract awarded to H. H. Wehmeyer, 509 W. Cumberland St., Phila., who is taking sub-bids, due Nov. 6th.

New Jersey Construction News

Municipal Building, Maple Shade, N. J. Architects, Edwards & Green, Camden, N. J. Owners, Chester Township, State of New Jersey, Maple Shade, N. J. Reinforced concrete, brick, steel, cut stone, 2 stories and basement, 68x37 feet (plumbing, heating, electric, separate), slag roof, cement and pine floors, hollow tile, metal lath, kalamine doors, metal ceilings, dampproofing, ornamental iron work, cast stone. Owners taking bids due Nov. 9th.

Residence, Morris Heights, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Oscar Davison, Hamilton and Anderson streets, Trenton, N. J. Cinder block and stucco, 2 stories, 33x45 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Stores and Apartments (2), Beach Haven, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, H. Colmer, Beach Haven, N. J. Cinder block and stucco, 2 stories, 31x90 feet, flat roof, pine floors, electric light. Plans in progress.

Theatre, Stores (5), Apartments (5), Arlington, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Harry Colmer, Beach Haven, N. J. Cement block, 2 stories, 50x150 feet, slag roof, cement and pine floors, electric light. Plans in progress.

Church, Parish House and Parsonage, Haddonfield, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Ownres, St. Mary's Episcopal Church, Rev. W. C. Heilman, on premises. Stone, stucco, cinder block, 1 story and basement, 45x120 feet, 40x80 feet, and 16x80 feet, slate roof, maple floors, cast stone, vapor heat, electric light, tile work, ornamental iron. Plans in progress.

Residences (semi-detached), Connecticut avenue, Atlantic City, N. J. Architect, private plans. Owner, Benjamin Cohen, 268 South Connecticut avenue, Atlantic City, N. J. Brick, 2 stories, 30x55 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress.

Hotel (alts. and add.), Idlewood, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Hotel Idlewood, J. K. Morrison, Idlewood, N. J. Frame, stucco, 3 stories add., 30x60 feet, general alterations. Plans in progress.

Hotel, West Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, Benjamin R. Fox, 1102 Atlantic avenue, Atlantic City. Brick, stucco, 2 stories and basement, 250x500 feet, slag roof, hardwood and concrete floors, waterproofing and dampproofing, ornamental iron, tile and marble, electric light. Plans in progress.

Comfort Station, Main and Atlantic avenues, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Atlantic City, S. Headley, Atlantic City, N. J. Brick, 1 story, tile and concrete floors, electric light, tile and marble. Plans in progress.

Warehouse, Atlantic City, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owners, Custer & Kallas, Mt. Vernon and Atlantic avenues, Atlantic City. N. J. Fireproof (semi), 3 stories, 85x30 feet, slag roof, pine and concrete floors, electric light. Revised plans in progress.

Porch (add.), Almshouse, New Lisbon, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Burlington County Board of Chosen Freeholders, Camden, N. J. All bids rejected. Revised plans in progress.

Apartment, Chelsea, N. J. Architect, A. B. Steelman, Guarantee Trust Building, Atlantic City, N. J. Owner, H. Halpern, Chelsea, N. J. Brick, stone, 5 stories, slag roof, hardwood floors, hollow tile, elevators (heating reserved), electric work, tile work. Revised plans in progress.

Residence, Brigantine Beach, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owner, J. R. Siracusa, care of architect. Stucco, frame, steel, 2½ stories, 51x24 feet, Spanish tile roof, hardwood floors, electric light, tile work. Revised plans in progress.

Nurses' Home, Clinton, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, State of New Jersey, Trenton, N. J. Brick, concrete block, 2½ stories and basement (plumbing, heating, electric separate bids), slate roof, maple floors, waterproofing, ornamental iron work. Owners taking bids.

Stores (19), Apartments (22), West Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, B. R. Fox, 1102 Atlantic avenue, Atlantic City, N. J. Hollow tile, frame, stucco, 2 stories, 550x100 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble, plate glass ,metal skylights. Owner ready for bids.

Apartment, West Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owners, West Atlantic Const. Co., West Atlantic City, N. J. Frame, stucco, 2½ stories, 120x60 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owners will build.

Bungalow, West Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owners, West Atlantic City Const. Co., West Atlantic City, N. J. Stucco, frame, 1½ stories, 30x38 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Owners will build.

Attendants' Building, Greystone Park, N. J. Architects, Department of Institutions and Agencies, Division of Architecture and Construction, Trenton, N. J. Owners, State of New Jersey, Board of Managers of Hospital for Insane, Greystone Park, N. J. Brick, concrete block, 3 stories, 226x110 feet, slate roof, maple floors, waterproofing, ornamental iron, iron stairs, steel sash (heating, plumbing and electric separate). Architects taking bids due November 17th.

Residences (38), Crescent Park, Camden, N. J. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Smith Brothers & Lewis, Crescent Park, Camden, N. J. Brick, frame, stucco, 2½ stories, various sizes, hot water heat, electric light, tile work, wood shingle roof, pine and hardwood floors. Plans in progress.

Lodge Building, Bridgeton, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, Fraternal Order of Eagles, Bridgeton, N. J. Revised plans in progress.

Borough Hall (alts. and add.), Westville, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Borough Council, Westville, Borough Hall, Westville, N. J. Owners taking bids due November 9th, 8 P. M.

Residences (7), 86-98 North Terrace avenue, Camden, N. J., $4,500 each. Architect, private plans. Owners, John A. Hendrickson & Son Co., 3514 Federal street, Camden, N. J. Brick, 2 stories, 18x32 feet, slag roof, hot water heat, electric light, pine floors. Permit issued.

Residences (2), Euclid street, Trenton, N. J., $10,000. Architect, private plans. Owner, Vincent Calnanelli, 427 Chestnut street, Trenton, N. J. Frame, brick, 2½ stories, 14x42

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feet, slate roof, pine floors, hot water heat, electric light. Permit issued.

Residence, Columbia avenue, Trenton, N. J, $6,000. Architect, private plans. Owner, J. H. Martinett, 112 Reading avenue, Trenton, N. J. Brick, concrete block, 2½ stories, 32x44 feet, slate and tin roof, hot water heat, electric light. Permit issued.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Route 12, Section 9, Fairfield to Little Falls, Essex and Passaic Counties. Excavation, borrow, double line reinforced concrete pavement, construction of one bridge with 3 spans 20 feet each, and one small span bridge extension. Certified check 10 per cent. Deposit, $10. Owners taking bids due November 15th at noon.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Reconstruction of timber trestle portions of State Highway bridge over Barnegat Bay between Island Heights and Seaside Heights, Ocean County. Removal and reconstruction of about 7,100 feet timber trestle, installation of new power unit and machinery on drawspan and reconstruction of ice breakers. Untreated timber, creosoted timber, creosoted piling, wooden guard fence, existing timber removed and relaid in new structure. Certified check, 10 per cent. Deposit, $10. Owners taking bids due November 15th at noon.

New Jersey Contracts Awarded

Central Office Building (alts. and add.), Gloucester, N. J. Architect, Engineer of Buildings, 261 North Broad street, Philadelphia. Owners, Delaware & Atlantic Telegraph & Telephone Co., care of Bell Telephone Co., Seventeenth and Parkway, Philadelphia. Bond, demolition, carpentry and mill work, plastering, hardware, slag roof, painting and glazing, electric work, plumbing, hot water heat. Contract awarded A. R. Sullivan, 547 Grant street, Camden, N. J.

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PHILADELPHIA

Store and Offices, 102 North Broad street, Trenton, N. J., $92,000. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owners, North Broad Realty Co., Trenton, N, J. Brick, concrete, limestone, 3 stories and basement, 54x73 feet, slag roof. Contract awarded to J. H. Morris & Co., 211 North Montgomery street, Trenton, N. J.

Church, Vineland, N. J. Architect, Clyde S. Adams, 2038 Spruce street, Philadelphia. Owners, Sacred Heart Roman Catholic Church, Vineland, N. J. Granite, cast stone, 1½ stories and basement, 175x75 feet, tile roof, cement and pine floors, steam heat, electric light, ornamental iron work. Contract awarded J. P. Hallahan, 2315 Walnut street, Philadelphia.

Sales Room and Apartment, 3114 Atlantic avenue Atlantic City, N. J. Architect, V. B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owner, L. L. Jones, 1019 Atlantic avenue, Atlantic City, N. J. Brick, steel, cast stone, 3 stories, 112x37½ feet, slag roof, hardwood floors, waterproofing, iron stairs, tile and marble work, steam heat, electric light. Contract awarded to Ingersol Const. Co., Linwood, N. J.

Residence, Boardwalk (Oxford and Summerset streets), Ventnor, N. J. Architect, H. A. Stoudt, Guarantee Trust Building, Atlantic City, N. J. Owner, Albert M. Greenfield, Bankers' Trust Building, Philadelphia. General alterations. Contract awarded Lam Building Co., 1001 Wood street, Philadelphia.

Garage, Pashley avenue, Trenton, N. J., $7,500. Architect, private plans. Owner, Mary McGrory, 827 Spring street, Trenton, N. J. Cement block, brick, 1 story, 76x55 feet, slag roof, cement floors. Contract awarded to John Corrigan, 618 Stuyvesant street, Trenton, N. J.

Residences (26), Illinois and McKinley avenues Atlantic City, N. J. Architect, W. S. Hewitt, Guarantee Trust Building, Atlantic City, N. J. Owner, name withheld. Brick, 2 stories, 16x40 feet, slag roof, pine floors, hot water heat. Contract awarded to Fred Builer, Atlantic City, N. J.

Building (add.), 38-44 North Fourth street, Camden, N. J., $13,000. Architect, Howard Hall, Merchantville, N. J. Owners, Cooperson Brothers, on premises. Brick, 1 story add., 40x80 feet, slag roof, electric lighting. Contract awarded to M. W. Cooperson Co., Van Russ Building, Camden, N. J.

Building (add.), 214-20 Penn street, Camden, N. J., $7,000. Architect, private plans. Owner, Jacob Rosenkrantz, 902 Market street, Camden, N. J. Brick, 1 story add., 16x80 feet, slag roof, electric lighting. Contract awarded M. W. Cooperson Co., Van Russ Building, Camden, N. J.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Route 14, Section 15, May's Landing to Estellville, Atlantic County. Contract awarded to C. H. Earle, Inc., Atlantic City, N. J., $165,112.87.

Miscellaneous Construction News

Municipal Office Building, Holliday, Lexington and Guiford, Baltimore, Md. Architect, William H. Emory, 18 East Lexington avenue, Baltimore, Md. Owners, Mayor and City Council, Baltimore, Md. Reinforced concrete, steel, limestone, cast stone, brick, 12 stories and basement, 149x208 feet, slag and promenade tile roof, cement and composition floors, hollow tile, waterproofing, Par Lock or equal dampproofing, ornamental iron work, floor hardener, bond, steel and fire doors, rolled steel skylights, tile, marble, terrazzo work, metal lath, electric light, steam heat, concrete piles, granite work, artificial stone, plastering, linoleum floors, refrigerator room, automatic sprinkler system, duraflex floors, pneumatic tubes, steel partitions, bronze work, iron stairs, steel casement sash, iron trench grating, dumb waiters, painting and glazing, cold water painting. Certified check, $45,000. Owners taking bids due November 10th.

Miscellaneous Contracts Awarded

Mill, Greensboro, N. C. Architect, private plans. Owners, Carolina Silk Products Corporation, Queensboro, N. C. Brick, steel, 2 stories and basement, 100x200 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, sprinkler. Contract awarded William F. Lotz, Frankford avenue and Oxford street, Philarelphia.

Thomas Edward Ash, Architect, formerly located 1012 Walnut St., Phila., has opened his new office at 1700 Walnut St., Phila. Rittenhouse, 8775.

Gerbrick & Kauffman, Roofers, formerly of 44 N. 2nd St., have moved to N. W. Cor. American and Filbert Sts., Philadelphia.

(Continued from page 696)

and not do anything that would tend to disarrange the established working conditions.

However, Ford is the autocrat of his business, and whatever others think will cause no difference in his actions, and we believe he will carry out his ideas at least as an experiment.

William H. Barr, president, William H. Barr, Inc., bronze castings, Buffalo:

What Mr. Ford might do, because of his peculiar position in the industrial world, cannot be a measure for all industry. Of course, Mr. Green tells us that

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the American Federation of Labor workers will produce just as much in the five-day week as in the six-day week or five and a half-day week. That is unadulterated bunk. There is not a union man who will exert himself one iota more per hour to produce more goods simply because he finishes on Friday night and not on Saturday. If it is true that there may be more production—sufficently more to offset the lost time—it is a plain indictment of present methods of unionist work. The unions have always been opposed in every way, by speech, by legislative effort, by propaganda—to speeding up. Now they purpose to "speed up" so as to get a six-day wage for five days' work.

Henry Abbott, president, Calculagraph Company, New York:

Of course, if employers are going to play golf all day on Saturdays, they cannot consistently refuse the same privilege to their employes. Then the golf courses and country clubs will become overcrowded. If the employes motor with the family on Saturdays, the roads and highways will become congested and impassable on the last day of the week as they now are on Sundays.

The question whether workers *need* another day for rest, depends upon the character of their work. In some industries involving severe musclar or mental strain, or where work is performed in excessive heat, dust or gasses, all will agree that rest periods, fewer hours per day or fewer days per week are necessary as well as desirable.

The A. F. of L. in convention assembled, at the psychological moment, have grabbed onto the Ford idea and resoluted in favor of a universal five-day week. This attitude is as illogical and as unreasonable as their other proposition that all workers in a given industry should receive the same pay, regardless of skill, ability or productive capacity.

William A. Vawter, president Baker-Vawter Company, loose leaf and filing equipment, Benton Harbor, Mich.:

I am somewhat doubtful as to the effect on men who are employed but five days a week. It seems to me that all of us need the discipline of more, rather than less regular work.

Our own experience is that shortening the hours of labor decreases production. In our opinion, the ideal work week is fifty hours—nine hours on Monday to Friday, inclusive, and five hours on Saturday.

The unfortunate part about the Ford Plan is that it will add encouragement to labor unions to increase their efforts to reduce the hours of labor. This is unfortunate because we know their plan is to limit the amount of work done rather than to tend to increase it.

As far as we are concerned, we feel that we can continue to operate under our present plan without any particular attention to the Ford plan.

Rowland B. Jacobs, of Everett Knitting Works, Lebanon, New Hampshire:

It is recognized that here and there is a strong industry manufacturing a profitable commodity more or less non-competitive, with a country-wide distribution, in which the hours or days per week can be more or less adapted to the situation in which the particular industry finds itself, but our people feel that to force such a radical changes upon manufacturers in general would have a very serious and adverse effect upon the industries involved. This in turn would be most unfortunate for manufacturers, employes and the public alike.

W. G. Dickie, Kaw Paving Company, 630 New England Building, Topeka, Kasas:

No matter how much industrial production might be speeded up by improved machinery and more alert workers no gain in production could result that would permit a sufficient reduction in price of the products of industry to compensate the worker in agriculture for the longer hours that his industry requires. Since the producers in agriculture provide the great market for the products of our great industries the increased cost of production by virtue of the shortened week would fall largely upon his shoulders. Can he be made to bear the burden of longer hours per day, six days per week, and the increased cost of the products manufactured and not work both an economic and social injustice upon him? I do not think so.

"FIVE-DAY-WEEK" NOT APPLICABLE TO THE BUILDING INDUSTRY

Henry Ford's announcement of the five-day week for labor in the multifarious industries he controls will do more to bring this policy before the public eye than all the propaganda of the American Federation of Labor for the past ten years. There is no doubt that Mr. Ford's unique position in the Industrial World causes his announcements to be fraught with serious interest, not only to those in allied industries but to the general public as well.

The Building Business cannot witness the establishment of the five-day week in industry without seriously taking stock of what such action would portend if applied to the construction business.

The five-day week unquestionably has a strong appeal to many working men, providing it does not reduce their annual income. The philosophy of two full days of recreation out of seven undoubtedly falls into the spirit of the times and finds a wide-spread response among the prophets of ease and indifference.

However, the results of such a philosophy in the Building Industry by no means ends with the gratification of the working man's inclination. Its results will affect every proposed investment and improvement. In the Building Industry there has been no speeding up of production comparable to the enormous mass production achieved in mechanical trades. Buildings are still largely fabricated by hand labor. Concrete forms must be built by hand. Bricks are still laid by hand. No mechanical device has been developed to apply lath or plaster, etc. The result is that a specified number of working hours must be utilized in the construction of every building. The employment of more men for a shorter time does not solve the problem, as a certain number only can be utilized in every craft to economical advantage. Further curtailment of effective labor time in the Building Industries will, therefore, tend to increase the cost of construction in two different directions: first, by an increase in wages indirectly due to a shorter week for the same pay; second, by an increase in interest, taxes and other carrying costs, due to the longer period of actual construction required.

It is very probable that the Building Industry would be seriously injured should the policy of the five-day week be adopted, as the factors of additional cost enumerated above will unquestionably operate to make the promotion of new structures in any community that much more difficult.—*East Bay Builder.*

UP-TO-DATE HOUSE COUSTRUCTION

A few years ago, if one were told that it would be a paying investment to insulate a home or building to save the loss of

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heat during the heating season, and give a much cooler house, especially the top story, in summer, he would be very skeptical, but exhaustive tests and experiments have been made so that about two years ago the proposition was brought to the attention of architects and engineers with convincing data, and today the proper insulation of a house is an important question, both to owners and builders who intend to build, as the day is not far distant when a house not so constructed will be a poor seller.

Without question, the most economical insulating material for this use is sheet cork, applied to the walls and ceiling of top floor or roof, either against studs and joists or cemented to walls of tile, brick or cinder block, and wherever it is used, lath is dispensed with, and the plaster in two coat work is applied directly to the face of the cork with better results than on lath.

It has been definitely proven that sheet cork is the best permanent insulator on the market, and by experiments and actual practice, 1½-inch thickness for walls and 2-inch for ceiling or roof will give the best return for money invested, and it is further proven that an insulator of less thickness than this will not be the paying investment that the thicknesses stated are. Engineers and architects like Isaac H. Francis, Philip H. Johnson and others of note in their profession, are so specifying.

The savings effected by insulating a house along these lines are as follows: dispensing with lath when cork is installed, cutting the heating plant 25 to 30%, acording to building construction, and the absolute saving of 30 to 40% of fuel required during a heating season over that required for the same house uninsulated.

It is especially valuable where a gas-fired heating plant is installed, as has been proven.

In the last year in this location, many factories, power plants and hospitals have installed sheet cork on roofs, and an outstanding example is the new Bayuk Cigar Factory that has been insulated completely on the outside walls and roof with 2-inch sheet cork.

A great number of dwellings have been insulated and the results during the last heating season have proven all the claims made for this insulation.

Recently on the Main Line at Devon, Pa., six houses of Colonial New England type, designed by Tilden & Register, have been built of the best materials and workmanship, combining many up-to-date ideas, the most outstanding feature being the complete insulation with sheet cork, and in the sample house a comfortable temperature is being maintained with a minimum water temperature and fuel consumption.

These houses are on the Boulevard, surrounded with old shade and shrubbery, within a minute's walk from the station, and the sample house is well worth an inspection by anyone who contemplates buying a "built to order" house in the heart of a beautiful country, with unexcelled railroad facilities.

Expense of insulation if properly considered is only the first cost (about 4% of the net cost of dwelling) and this is soon absorbed by savings every year, besides satisfaction and complete absence of drafts.

Uninsulated houses are causing annually millions of dollars worth of heat loss, the seriousness of which loss is not realized because it is not actually missed and cannot be specifically appreciated.

AN IDEAL BACKGROUND

BY JULIA WOLFE

Too many apartments these days are decorated in gray, for it is an excellent background for pictures and ornaments. Of course gray and all the tones of gray are not decorative in themselves, though some contrasting color, which is to form the real color note in a room, but which is too strong to use in any but small quantities, can safely be used with it. It is therefore neutral.

Neutral tints and grays can not be obtained satisfactorily by plain painting in thick color. They must be obtained by combinations of color either stippled or glazed, and not by some mixture, which is the usual method. A neutral tint or gray tending in the blue direction should be over a bright light-blue foundation, and one in a browner tone over scarlet. The blue foundation may be stippled with white and grays to bring out the desired tint, and the scarlet with browns and whites. Several coats of stippling will be needed, but it is worth while, as one will get quite a different and a far more interesting result.

One can say that the pure grays range from white through all tones to black; the other neutral tints soon cease to be neutral and become brown or blue or green according to their alliance with these colors.

A north room should never be "done" in gray nor should a badly lighted room, as it will only look dirty; and when working in grays one must always bear in mind that an unclean effect is to be avoided at all costs.

The surface of light gray walls is important. It should be flat, as glossy gray is too drab in effect. A ceiling should never be gray. A neutral tint tending towards browns may, however, be glossy in surface; also many walls that are blue but almost gray.

Given a gray background, certain colors at once suggest themselves to work with. Pink—a bluish pink, not an orange pink—is excellent, and very effective. Pale blue may be charming, but it should be a pinkish blue and not a green one if the gray is light. Bright green also is delightful, but brown and yellow are to be avoided as being antipathetic and not sufficient in themseves to quell the gray. Pure vermilion and pure emerald green are beautiful with light gray, but with dark gray they fail, and one must turn to crimson and to richer greens. However, the same bright blues will go with all shades of gray.

White is good with all grays up to a point, but where they are dark the white should be slightly tinted and really be a pale gray. Black is poor with light gray, but good with dark gray, provided it is a blue black and not a brown black, which must only come near the browner tones of neutral tints.

One of the best backgrounds for drawing or for etchings may be had by painting a wall white and then glazing lampblack and gray mixed and stippled. The result should be dark and varnished, and with it may be bright colored or white paint with a flat surface, the frames of the pictures being the same color as the doors, etc.

Gray curtains, cushions, etc., need care. Gray carpets need no care, and can be, and are, put in everywhere where nothing else is called for.

If gray curtains there be they must be of silk or other expensive material. Cotton should be avoided. Gray curtains are better self-colored, and should not have a colored design on them. Their beauty should be in their oyster-like gloss. Also gray cushions should be self-colored. Gray should never be floridly decorated, and therefore all "extras" should not be done in gray.

Fringes and braids of gray can be very good, and they may be made of very fine silk or artificial silk to give a gloss that will make them represent silver.

Unpainted woodwork can be gray and be very lovely. The wood may be bleached by a polisher and then left. It is better unwaxed, but if it be waxed, then white wax should be used, as one wishes to keep it as silvery as possible.

Gray floors are always effective. This can be done and sustained with oxalic acid, but such bleaching is useless for furniture that is used much, as grease and oils destroy the bleach.

Outside, gray paint is of little value; white is usually far more serviceable. Gray blinds on a white house with a gray tiled roof are pleasing, and a very highly varnished front door is smart in a white archway and is charming.

Silver light fixtures and candle holders also blend beautifully with gray. Gray paper for a bathroom is delightful.

—Pacific Coast Architect.

Reference Directory for Architects, Builders and Owners

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llingham Co.....Norris and Richmond Sts., Phila.

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ilding News Pub. Co.....1530 Chestnut St., Phila.

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ti-Hydro Waterproofing Co.,
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rnett Bingswanger.....829 N. 3rd St., Phila.
ncrete Waterproof Paint Co..829 N. 3rd St., Phila.
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e Atlas Blue Print Co.....34 S. 16th St., Phila.
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FENCES
tit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
ts, Horace T., & Co...Erie Ave. & "D" St., Phila.
isbord, Wolf .....138-140 N. 55th St., Phila.

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Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

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Fleck Bros. Co. .....50 N. 5th St., Phila.

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1711 Chestnut St., Phila.
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Potts, Horace T. & Co....Erie Ave. and D St., Phila.

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DeCou, Richard Co.....11th and Noble Sts., Phila.
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Livezey, Thos. H...American and Luzerne Sts., Phila.
Montgomery Iron & Steel Co..2500 Duncan St., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
Pettit, Frank, Orna. Iron Works,
1505 N. Mascher St., Phila.
Reisbord, Wolf .....138-140 N. 55th St., Phila.
Whartenby, Harry A. ....1823 Brandywine St., Phila.

KITCHEN CABINETS
Philadelphia Gas Range Co. ....1026 Arch St., Phila.

LEVELS
Robbins, Chas. H., Co. .....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
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LIGHTING FIXTURES
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LIGHT IRON CONSTRUCTION
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.

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Glenwood Ave., w. of 22nd St., Phila.

LUMBER
Gillingham Co. ..Norris and Richmond Sts., Phila.
Ketcham, Howard.....3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

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Belfi Bros. Co. .....1923 Market St.. Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. .....433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

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D'Lauro, John .....7732 Ardleigh St., Phila.
Mercaldo, Vincent..411 Locust Ave., Germantown, Pa.

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Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
John S. Raynor .....2300 E. Lehigh Ave., Phila.

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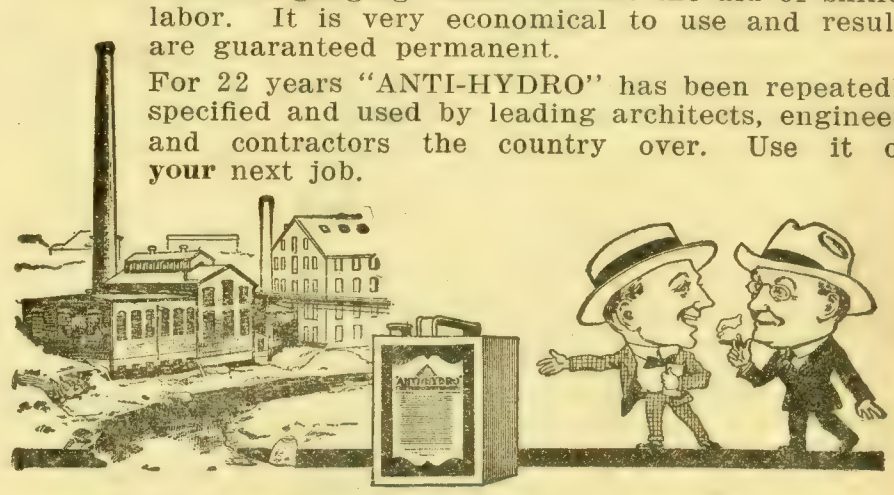
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Vol. XLI, No. 45
November 10, 1926

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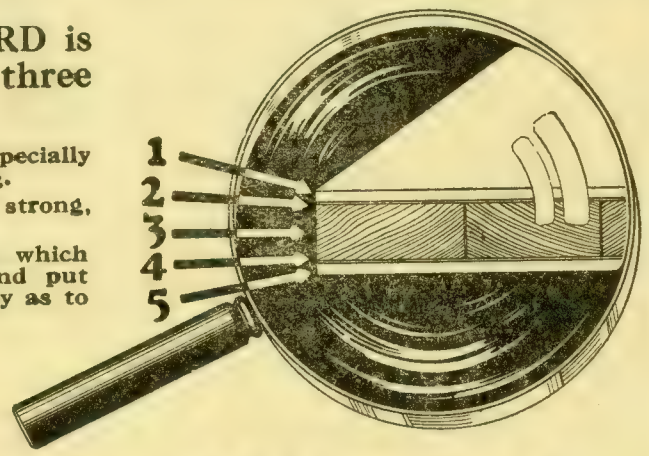
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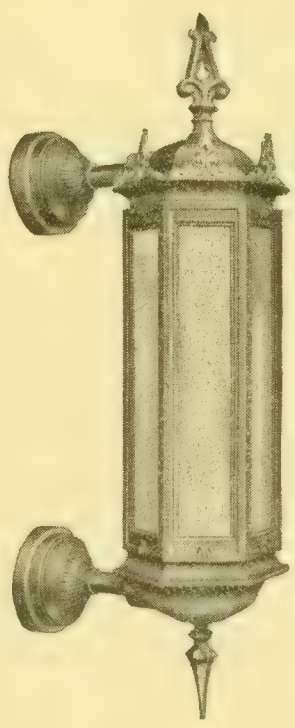
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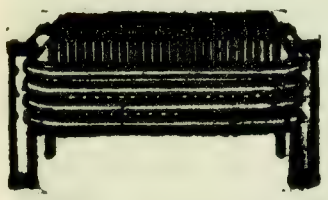
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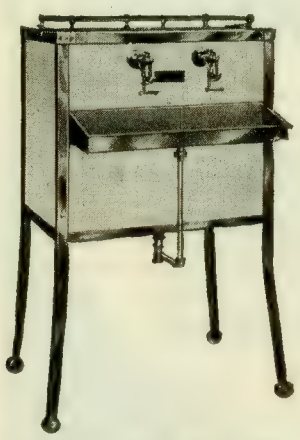


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Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 45

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November 10, 1926

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As The Editor Sees It

CONTRACT WORKING TIME AND LIQUIDATED DAMAGES

By W. H. Connell,
Engineering Executive and Acting Secretary of Highways, Commonwealth of Pennsylvania

Time is an essential element of a contract and in order that there be true competitive bidding, the time allowed must be stated in the proposal and understood by all.

The charging of contract time must be considered impartially as the interests of the public and the contractor are involved. The policy of the Department and the method of charging working time in the field, stated briefly, is as follows:

The Department's Form No. 476 is used for indicating the basis upon which the Department has determined the contract working time. This analysis of time and allotment to the various major operations will be considered satisfactory unless the contractor chooses to use a different plan and schedule. If he chooses to do this he shall discuss the matter with the district engineer and obtain his approval and a new Form 476 shall be worked up and used as the basis of operation in checking the contract working time.

Legal time is the correct working time after the legal starting date and is used for determining liquidated damages. The actual time includes any time used previous to the legal starting date plus the legal time and is used for determining the actual progress and cost of the various items.

The district office, upon receipt of a notice of execution of a contract, will notify the contractor to begin operations on a stated date providing he has not done so in the mean time. This date usually is ten days from the date of the letter to the contractor and the charging of working time begins at the time stated in the notice. If the contractor has begun operations, working time is charged from the date of notice-to-proceed given to the contractor.

As the remission of working days or extension of contract time is vested entirely in the Secretary of Highways or his deputy, the inspector is instructed to charge time for every day or fraction of a day with the exception of legal holidays and Sundays, when the weather will permit work on the major controlling operations and he has no alternative. He is instructed to keep an accurate record for all delays and their causes, these being submitted to the district engineer for his consideration.

The controlling major operation may be defined as that operation which controls the progress of the contract at any time. Generally speaking, grading will be considered the major controlling operation until such time as the schedule provides for the starting of the base course or surfacing. If the contractor continues to grade after paving is scheduled to start and weather conditions would not permit paving, no time shall be charged, based upon the consideration that the surfacing operation will require the scheduled amount of time for its completion and is the major controlling operation at that time, regardless of the grading. Very frequently the contractor desires to continue grading operations during the winter months while the grading operation is still the controlling major operation. In this case, time will be charged proportionate to the work accomplished to that scheduled, until such time as the grading operations cease to be the controlling major operation, and from that time on no charge will be made for grading.

In order that the contractor may be fully informed of the time charged on any particular project, the district engi-

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neer is instructed to notify him monthly of such charges and request an immediate discussion of any exceptions the contractor desires to take. If the district engineer concurs with the contractor, he will advise him that he will recommend such remissions to the Secretary of Highways for his consideration.

The principal causes for recommending remission of working time are equipment breakdowns, embargoes or failure to obtain delivery of material, delays due to public service companies' failure to remove or relay structures within the limits of the work, and increasing items in the contract. No remissions will be considered for causes other than those over which the contractor has no control, or for which he is not responsible. The contractor is considered responsible for supplying labor and materials and only in extremely exceptional cases, where it is shown that the contractor has used every practical means to meet this requirement and has failed through no fault of his own, will remissions be considered.

Adjustments of contract time for inceased or decreased quantities will be made at the rate of progress indicated in the schedule, or at a satisfactory lower rate of progress according to the conditions, which will be determined by the engineer.

Failure to anticipate conditions and to complete minor operations which delay any controlling major operations will be considered the contractor's responsibility.

The district engineer's recommendations will be considered by the Secretary of Highways each month providing the remission recommended amounts to at least 10 per cent. of the original time allowed in the contract.

When operations are discontinued during the winter months, the district engineer is instructed to notify the contractor in the spring that operations must be begun on a given date and time will be charged from that date and carried along in the same manner as on a contract just executed, providing however, the contractor has not begun a controlling operation before the given date, when in such cases time shall be charged from the beginning of such operation. Reasonable time for closing down work in the fall and resuming in the spring will be allowed without charging time.

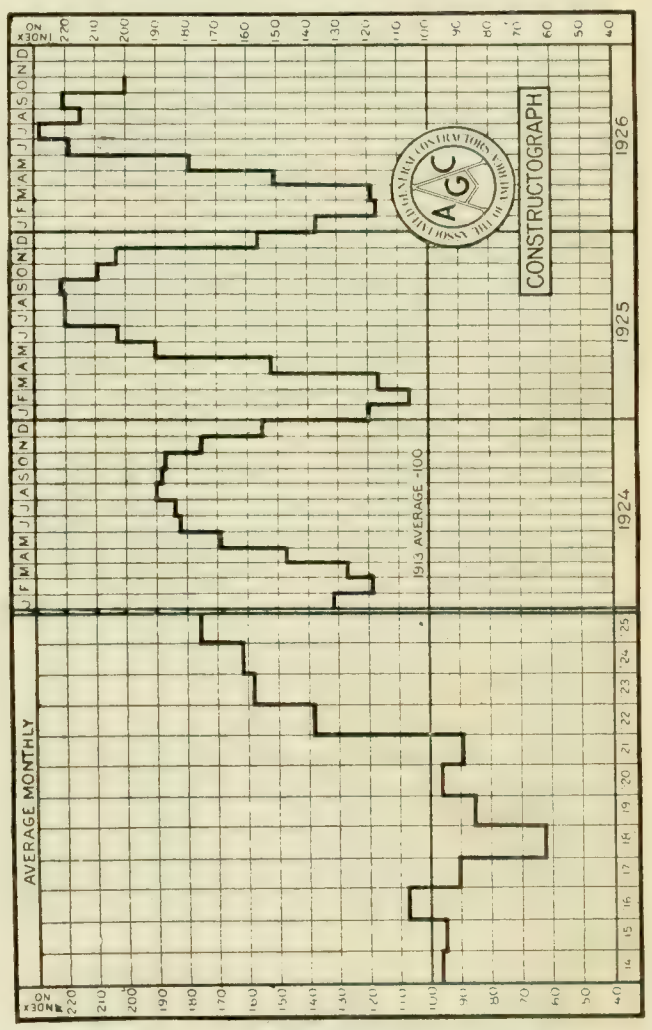
Liquidated damages are provided in the contract and are assessed for two reasons: First, the expense and inconvenience to the public for the failure of the contractor to complete the work for the use of the traveling public; and, second, the expense of administration for overhead and inspection during the extra time used by the contractor.

The district engineer may recommend that after the pavement is opened for traffic and after the contract time has all been used, all time charged thereafter may be remitted with the exception of the equivalent of the inspectional charges. If such recommendations are approved the charge shall be the actual inspectional charges during such period, based on calendar days regardless of working days that were consumed.

If any special cases arise that are not covered by the above conditions the district engineer is instructed to submit the facts to the main office for decision.

More than 7 billion dollars already have been spent this year for construction in the United States. The volume of building operations financed by this enormous expenditure during the first ten months of 1926 is greater than the volume registered during the corresponding period of last year, when all previous records were broken, according to statistics compiled by the Associated General Contractors of America.

Volume of Construction



(*Continued on Page 721*)

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Warehouse, Delaware avenue and Spruce street, Philadelphia, $1,700,000. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Quaker City Cold Storage, on premises. Twelve stories. Sketches drawn. Work contemplated.

College Building, Forty-third and Kingsessing streets, Philadelphia. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Philadelphia College of Pharmacy, W. C. Braisted, 145 North Tenth street, Philadelphia. Brick, limestone, steel, concrete, 3 stories. Plans in progress.

Auditorium (remodeling), Thirty-second and Chestnut streets, Philadelphia. Architect, W. W. Potter, Real Estate Trust Building, Philadelphia. Owners, Drexel Institute of Art, Science and Industry, Kenneth G. Matheson, president, Thirty-second and Chestnut streets, Philadelphia. Plans in progress.

Synagogue and Sunday School, Broad and Mount Vernon streets, $750,000. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Rodolph Shalom Synagogue, Rabbi Wolsey, on premises. Architects selected. Plans in progress.

Residence, Chelten avenue near Seventh street, Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owner, J. M. Zerbey, care of Zerbey & Holloway, 4717 North Broad street, Philadelphia. Stone, 2½ stories and basement, 55x42 feet, hot water heat, electric light, tile work, metal lath, ornamental iron work, slate roof, oak and pine floors, plumbing, metal weather strip, waterproofing, septic tanks, linoleum floors, flagstone, treadlite or linotile floors, metal casements. Owner sub-letting.

Apartment House, Southeast Corner Forty-eighth and Chester avenue, Philadelphia. Architect, C. E. Oelschlager, 1615 Walnut street, Philadelphia. Owner, Louis K. Faulkner, 4245 Ludlow street, Philadelphia. Brick, limestone, 6 stories, 52x112 feet (48 apartments), slag roof, hardwood floors, elevators, steam heat, electric light, tile and marble work, fire towers, refrigerator and laundry equipment, incinerator, kitchen equipment. Owner will build.

Apartment House, 2331 North Fifty-eighth street, Philadelphia. Architect, Roy G. Pratt, Franklin Trust Building, Philadelphia. Owners, Overbrook Const. Co., 1314 Franklin Trust Building, Philadelphia. Brick, limestone, 2 stories, 197x207 feet (32 family apartments), slag roof, hardwood floors, central heat, electric light, tile and marble work, kitchen equipment, laundry equipment. Owners will build. Work to start at once.

Restaurant Building (alts.), 126 South Fourth street, Philadelphia. Architect, Ralph Bencker, Bellvue Court Building, Philadelphia. Owners, Horn & Hardart Baking Co., 214 South Tenth street, Philadelphia. Reinforced concrete, brick, granite, limestone, steel, 2 stories and basement, slag roof, cement floors, hollow tile, metal lath, tile, marble and terrazzo work, hollow metal doors, metal bulks. Revised plans in progress. Ready for new bids in a few days.

Factory, American and Buttonwood streets, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth street, Philadelphia. Owner, Richard L. Binder, Metals Coating Co., 497 North Third street, Philadelphia. Brick, steel, 5 stories, 30x100 feet. Plans about completed. Ready for bids in about a week.

Hospital Buildings (5), Eighth and Thompson and Franklin streets, Philadelphia. Architect, Amos W. Barnes, Perry Building, Philadelphia. Owners, St. Luke's and Children's Homeopathic Hospital, on premises. Brick, stone, steel, concrete. Ready for bids in two weeks.

Bank and Office Building, Broad street, Walnut to Sansom streets, Philadelphia. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Fidelity Trust Co., W. P. Gest, president, Broad and Chestnut streets. Brick, granite, reinforced concrete, carved stone and marble, steel, tile and marble work, metal lath, iron work, 24 stories, 229x175 feet, bronze windows. Ready for bids December 1st.

Garrick Theatre, Northeast Corner Twentieth and Market streets, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Stanley Company of America, 1916 Race street, Philadelphia. Work contemplated.

Interior Alterations, 400 Locust avenue, Germantown, Philadelphia. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, W. H. Murphy, care of architect. Carpentry and mill work, plastering, electric work, plumbing, hot water heat. Architects taking bids due November 17th.

Loft Building, Kensington and Sedgley avenue, Philadelphia. Engineer, Julian Simsohn, Broad and Girard avenue, Philadelphia. Owner, Henry N. Kerr, 527 West Sixty-sixth avenue, Oak Lane, Philadelphia. Reinforced concrete, 6 stories and basement, 180x200 feet, slag roof, concrete floors, steam heat, electric light, elevators. Plans completed.

New Forrest Theatre, Northwest Corner Twenty-first and Market streets, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Stanley Company of America, 1916 Race street, Philadelphia. Brick, cut stone, steel, 5 stories and basement. Plans nearly completed. Architects ready for sub-bids in two weeks.

Stone Residence, Milton street, North of Vernon road, Philadelphia. Architect, Paul Livingstone Boyd, R. A., 6943 Limekiln pike, Philadelphia. Owner, Joseph S. Gentel, 4612 Greene street, Philadelphia. Stone, 2½ stories, 27x41 feet, porch 27x12 feet 6 inches, slate roof, hot water heat, electric light, tile work, hardwood and tile floors, metal weather strips, metal window guards. Owner ready to take sub-bids.

Residences, 16 Morris Park, at Sixty-sixth street, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, McWilliams & Maloney, 539 South Fifty-second street, Philadelphia. Stone, brick, stucco, 2 stories, 20x32 feet, 16x45 feet, slag and slate roof, hardwood floors, central heat, electric light, tile work. Owners taking sub-bids.

Garage, 1418-22 South Seventh street, Philadelphia. Architect, I. W. Levin, 1011 Jefferson Building, Philadelphia. Owners, Babis & Bender Const. Co., Shubert Building, Philadelphia. Brick, steel, 2 stories, 50x100 feet, wing 25x170 feet, slag roof, cement floors, ramps, steam heat, electric light, plate glass, rolled steel skylights. Plans completed. Owners ready for sub-bids.

Lighting Streets, Boulevards, Sidewalks, etc., Philadelphia. Owners, Department of Public Works, Bureau of Lighting, 216 City Hall. Owners taking bids due November 10th at noon for lamps, light and necessary maintenance for furnishing and extinguishing lights for sidewalks, streets, alleys, boulevards, bridges, parks, etc., for period January 1st to December 31st, 1927. Inquire Room 330.

Supplies. Owner, Purchasing agent, E. J. Lafferty, 312 City Hall, Philadelphia. Owner taking bids due November 12th for iron castings.

Garage, 1415 Melon street, Philadelphia. Architect, W. F. Selleman, 28 South Eighteenth street, Philadelphia. Owner, Louis Kolb, care of architect. Brick, steel, 1 story, slag roof, cement floors, painting and glazing, plastering, plumbing, electric light, ornamental iron work. Architect taking revised bids due as soon as possible.

Residence, Park Lane Drive and Cliveden street, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owner, A. Sabloskey, care of Stanley Company of America, 1916 Race street, Philadelphia. Stone, 2½ stories and basement, 35x88 feet. Architects taking bids due November 18th.

Residences (12), 3411-33 Vaux street, Philadelphia, $48,000. Architect, private plans. Owner, M. J. McCrudden, Real Estate Trust Building, Philadelphia. Concrete block, 2 stories, 16x30 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (10), Tilden street, East of Conrad street, Philadelphia, $33,000. Architect, private plans. Owner, M. J. McCrudden, Real Estate Trust Building, Philadelphia. Concrete

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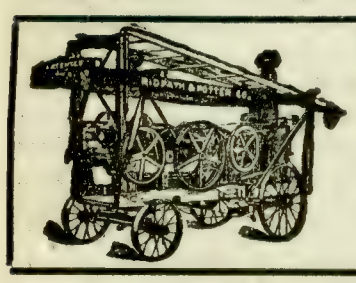
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block, 2 stories, 14x24 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residence (3) (repairs), 4928-30-32 Paschall avenue, $6,000. Owner, Louis M. Devens, 5602 Florence avenue, Philadelphia. General fire repairs. Permit issued.

Residence and Store, Southeast Corner Verree road and Shelmire street, Philadelphia, $6,000. Architect, private plans. Owner, Harry Glaser, 7524 Lawndale avenue, Philadelphia. Brick, 2 stories, 18x58 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Factory, 5820 State road, Philadelphia, $5,000. Architect, Hugh A. Hamilton, Greene street and Chelten avenue, Philadelphia. Owners, Safety Glass Co., 5820 State road, Philadelphia. Brick, 1 story, 47x47 feet. Permit issued.

Foundry (alts.), Southwest Corner Fifth and Washington avenue, Philadelphia, $4,000. Architect, private plans. Owners, Southwark Foundry & Machine Co., Fifth and Washington avenue, Philadelphia. General alterations. Permit issued.

Residences (9), North side Kerper street, East of Oakley street, Philadelphia, $43,500. Architect, private plans. Owner, Hyman Korman, Oxford avenue and Levick street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Apartment House (alts.), 1834 North Eighteenth street, Philadelphia, $2,000. Architect, private plans. Owner, C. Flinton, 1704 Georges Lane, Philadelphia. General alterations. Permit issued.

Residences (64), (37) Georgean road, East of Ogontz avenue, and (27) Neilson street, South of Bristol, Philadelphia, $248,000. Owner, Max Chipin, 5701 North Seventeenth street, Philadelphia. Brick, 2 stories, (37) 16x38 feet, 12x14 feet, (27) 15x27 feet, 11x11 feet, slag roof, pine floors. Permit issued.

Stores and Apartments (3), West side Frankford avenue, South of Englewood street, $31,000. Architect, private plans. Owner, Fred E. Rowe, Frankford avenue and Cottman street, Philadelphia. Brick, 2 stories, 18x27 feet, 14x28 feet, slag roof, hardwood and pine floors, electric light. Permit issued.

Store (add.), Southwest Corner Seventy-second and Elmwood avenue, Philadelphia, $6,000. Architect, private plans. Owner, T. P. Smart, on premises. Brick, 2 stories add., 17x24 feet. Permit issued.

Residence, North side Chelwynde avenue, East of Seventy-seventh street, Philadelphia, $5,000. Architect, private plans. Owner, Charles F. Kirchner, Seventy-seventh and Chelwynde avenue, Philadelphia. Brick, 2 stories, 26x28 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residence, 2538 East Ontario street, Philadelphia, $3,500. Architect, private plans. Owner, Walter Rybas, 3336 Edgemont street, Philadelphia. Brick, 2 stories, 16x42 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Miscellaneous Paving, Philadelphia. Low bidders. Asphalt paving—Alder, Warnock, Eleventh, Johnson and Bigler streets, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $9,241.35. Mascher street, Chew to Nedro, Barber Asphalt Co., 1600 Arch street, Philadelphia, $20,565.14. Yocum, Fifty-fifth to Fifty-sixth street, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $4,556.10.

Asphalt Repaving—Market, Fifty-fourth to Fifty-eighth, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $54,772.25.

Redressed Granite Block Repaving—Chancellor, Seventeenth to Eighteenth, C. G. Centrone, 522 North Sixty-fifth street, Philadelphia, $6,473.70. Erie, Broad to Fifteenth, C. G. Centrone, 522 North Sixty-fifth street, Philadelphia, $4,285.47. Front, Arch to Chestnut street, Acchione Cont. Co., 804 South Twelfth street, Philadelphia, $18,242.80. Third street, Arch to Spring Garden street, Acchione Cont. Co., 804 South Twelfth street, Philadelphia, $28,575.

Country Road Improving—Ashwood, Redmond, Eighty-second and Eighty-third, Tinicum and Botanic, C. G. Centrone, 522 North Sixty-fifth street, Philadelphia, $6,648. Ashwood, Eighty-eighth, Eighty-ninth, Tinicum, Ninetieth and Botanic, B. Foster Co., Twentieth and Venango streets, Philadelphia, $4,060.05. Eighty-first, Lyons and Eastwick, C. G. Centrone, 522 North Sixty-fifth street, Philadelphia, $6,990.88.

Sewer Work, Philadelphia. Low bidders. Owners, Department of Public Works, Bureau of Engineering, 216 City Hall. Main sewer, Hellerman street. Adolph Jaffola & L. Mark, Hunting Park avenue and East Front street, $87,288. Reconstruction of Spruce street sewer, Woodland and Thirty-fourth streets, J. Joseph McHugh, 1617 Race street, Philadelphia, $64,869. Main sewer, State road, Angelo Mattia, 784 South Tenth street, Philadelphia, $52,671.05.

Residences (37), S. Side Cornelius St., W. of Homer St., $145,800. Architect, private plans. Owners, Kenin & Shapiro, 628 Land Title Bldg., Phila. Brick, 2 stories, 16x30, 11x8 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Service Station (add.), 2328-30 Carpenter St., Phila., $2,500. Architect, private plans. Owner, Edward M. Harris, 2220 Chestnut St.,

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Phila. Brick, 1 story addition, 45x50 feet, slag roof, cement floors, electric work. Permit issued.

Steam Plant, N. Side Willow St., 9th to Darien Sts., Phila. Architect, John T. Windrin, Commonwealth Bldg., Phila. Owners, Phila. Electric Co., 1000 Chestnut St., Phila. Brick, 2 stories(84x94, side 35x94 feet. Owners will build. Plans filed.

Store and Apartments (alts and add.), 305 S. 52nd St., Phila. Architects, Durham Bros., 34 S. 17th St., Phila. Owner, Mrs. E. Chapman, 5530 Lansdowne Ave., Phila. Tapestry brick, brick, steel, 2nd story addition, new 3rd floor, slag roof, oak and pine floors, carpentry and millwork, plastering, painting and glazing, electric work, metal lath, tile work, ornamental iron work. Owner taking bids due as soon as possible.

5 and 10c Store, 1640 Ridge Ave., Phila. Architect, Harold Holmes, Detroit, Mich. Owner, S. G. Kresge & Co., Detroit, Mich. Brick, granite, steel, 2 stories and basement. Owner taking bids due Nov. 22nd.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

House of Correction, Holmesburg, Pa. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Welfare, City of Philadelphia. Contracts awarded: H. E. Baton, 1713 Sansom street, Philadelphia, $477,000, deduct for administration building $90,000. Heating, W. Anderson, 600 Schuylkill avenue, Philadelphia, $119,867, deduct for administration building $9,967. Plumbing, J. Borden & Bro., 637 North Nineteenth street, Philadelphia, $80,977, deduct for administration building $7,819. Electric, W. V. Pangborne Co., 1927 West Montgomery avenue, Philadelphia, $48,861, deduct for administration building $7,230.

School, Allen lane and Rural lane, Mt. Airy, Pa. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contract awarded McCloskey Co., 1620 Thompson street, $449,345. Plumbing, S. Faith & Co., 2427 Pennsylvania avenue, Philadelphia, $19,399. Heating, E. F. Roberts, 2622 Columbia avenue, Philadelphia, $34,864. Electric, E. F. Goldhahn, 17 South Forty-fourth street, Philadelphia, $6,724. Ventilating, W. J. Cameron, 208 Arch street, Philadelphia, $1,215.

Post Office Building, Mascher street above Tabor road, Philadelphia. Architect, Peter F. Getz, Victory Building, Philadelphia. Owner, name withheld. Lessee, United States Government, Washington, D. C. Brick, 1 story and basement, vapor heat, electric light, marble work, slag roof, pine and terrazzo floors. Contract awarded A. Earl Barnes Co., 3104 Frankford avenue, Philadelphia.

Parochial School, Gaul and Berks streets, Philadelphia. Architect, Peter F. Getz, Victory Building, Philadelphia. Owners, Holy Name Roman Catholic Church, Rev. G. H. Scholz, on premises. Stone, brick, cut stone, 3 stories and basement, 42x51 feet, slag roof, composition, cement and maple floors, vapor heat, electric light, metal lath, safety treads, galvanized iron skylights, metal ceilings, iron safety treads, iron stairs, ornamental iron work, metal toilet partitions. Contract awarded M. Melody & Son, 1322 Race street, Philadelphia.

Stores (alts.), 108 West Queen lane, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Adam Pietz, on premises. Bond, concrete, cement floors, brick, iron and steel work, slag roof, plastering, metal lath, carpentry and mill work, hardware, painting and glazing, plastering, plumbing, electric. Contract awarded John Roman, 415 Bringhurst street, Philadelphia.

Building, Broad and Arch streets, Philadelphia, $5,000. Architect, W. E. S. Dyer, Land Title Building, Philadelphia. Owners, Berger Brothers, 229 Arch street, Philadelphia. Corrugated iron, 1 story, 21x50 feet, slag roof, cement floors, plumbing. Contract awarded John Schnabel, Abbott Building, Philadelphia.

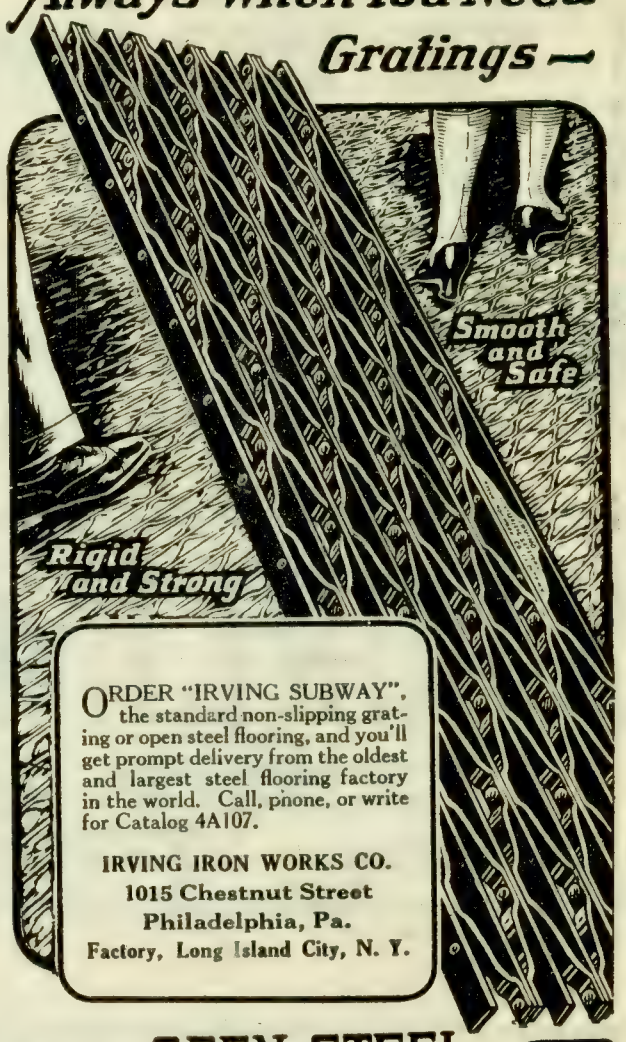
Auditorium, Southeast Corner Eighteenth and Locust streets, Philadelphia, $80,000. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Curtis Institute of Music, W. E. Walter, on premises. Brick, 1 story, 65x35 feet, slag roof, pine and maple floors. Contract awarded H. H. Burrell & Son, 206 South Quince street, Philadelphia, without competition. Ready for bids in two weeks.

Cold Storage Plant, Delaware and Oregon avenues, Philadelphia. Architect, William Cookman, Fifteenth and Market streets, Philadelphia. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. Brick, concrete, steel, details undecided. Contract awarded Armstrong & Latta, 1926 Sansom street, Philadelphia. without competition.

Loft Building, Noble and Hamilton streets, above Thirteenth street, Philadelphia. Architect, P. S. Tyre, 114 South Fifteenth street, Philadelphia. Owners, G. F. Lasher Printing Co., care of R. H. Greenburg, Morris Building, Philadelphia, agent. Brick, concrete, cut stone, granite, steel, 7 stories and basement, 174x186 feet, slag roof, cement floors, hollow tile, elevators, safety treads, shoring, waterproofing, glazed terra cotta, metal lath, tile and marble work, hollow metal sash, rolled steel skylights, fire and kalamein doors, floor hardener, ornamental iron work, bronze work, vault doors, area gratings, rolled steel shutters. Contract awarded Turner Const. Co., 1700 Walnut street, Philadelphia.

Store and Office (alts.), 3044 Kensington avenue, Philadelphia. Architect, Paul Livingstone Boyd, R. A., 6943 Limekiln pike, Philadelphia. Owner, Philip Caplan, 3120 Kensington avenue, Philadelphia. Brick, terra cotta, 2 stories, 16x45 feet, slag and glazed tile roof, tile and wood floors, hot water heat, electric light, metal lath, eile and marble

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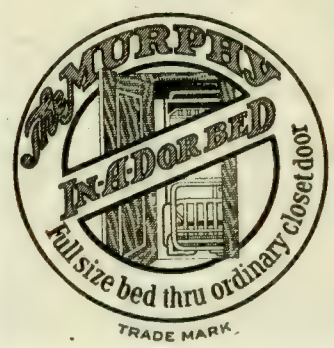
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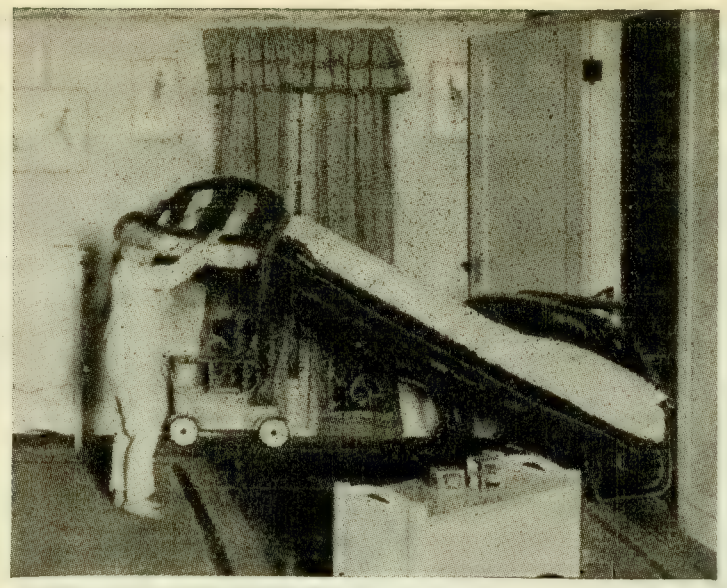
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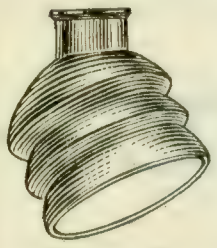
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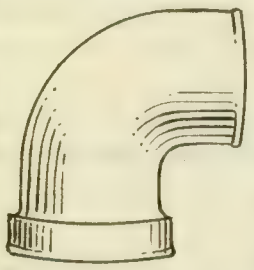
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work, rolled steel sash, hollow metal skylights, metal bulks, terra cotta, metal ceilings, metal window guards, roof ventilators. Contract awarded H. Schestack, Thirty-eighth and Poplar streets, Philadelphia.

Approach to Church, Midvale avenue, Falls of Schuylkill, Phila., $4,000. Architect, Geo. I. Lovatt, 223 South Sydenham street, Philadelphia. Owners, St. Bridget's Roman Catholic Church, on premises. Stone work, excavation, concrete, cement work, bluestone, flagstone, cast stone, iron cellar doors. Contract awarded P. H. Kelly, 1713 Sansom street, Philadelphia, who is taking sub-bids.

Storage Building (add.), 1939 Passyunk avenue, Philadelphia, $2,000. Architect, private plans. Owner, J. M. Lomanaco, 1335 Mifflin street, Philadelphia. Brick, 1 story add., 16x16 feet. Contract awarded to James Bianchini, 1924 South Thirteenth street, Philadelphia.

Residence and Stores (alts.), 2115-17 Ridge avenue, Philadelphia, $10,000. Architect, private plans. Owner, I. Weiss, 2117 Ridge avenue, Philadelphia. General alterations. Contract awarded to I. Alterman, 5400 B street, Philadelphia.

Store and Storage (add. and alts.), 2223 North Front street, Philadelphia, $7,000. Architect, private plans. Owner, Joseph Stein, on premises. Brick, 1 story add., 46x36 feet, general alterations. Contract awarded to Thomas Matthews & Sons, 2336 North Hancock street.

Residence and Store (add. and alts.), 2063 Germantown avenue, $4,000. Architect, private plans. Owner, S. Goldstein, on premises. Brick, second story add., 16x22 feet, general alterations. Contract awarded to R. Clark, 830 North Sixth street, Philadelphia.

Building (alts.), Northeast Corner Twenty-seventh and Cumberland streets, Philadelphia, $3,300. Architect, private plans. Owner, L. Santiloff, 3919 Pennsgrove street, Philadelphia. General alterations. Contract awarded to Newman Brownstein, 4015 Fairmount avenue, Philadelphia.

Theatre, 2057-59-61 Ridge avenue, Philadelphia, $60,000. Architect, private plans. Owner, J. M. Kennedy, Jr., 406 South Van Pelt street, Philadelphia. Brick, 1 story, 58x140 feet, steam heat, electric light, slag roof. Contract awarded to Joseph K. Long, 1619 West Robinson street, Philadelphia.

Store, Northeast Corner Sixteenth and Wood streets, Philadelphia, $6,000. Architect, private plans. Owner, J. E. Lutz, 240 North Seventeenth street, Philadelphia. Brick, 2 stories, 28 feet 10 inches x 48 feet, slag roof, pine floors, electric work. Contract awarded to Harry Walters, 410 North Fortieth street, Philadelphia.

Store (add.), 1506 Ritner street, Philadelphia, $2,000. Architect, private plans. Owner, Nathan Drossner, 1512 Ritner street, Philadelphia. Brick, 1 story add., 16x12 feet, pine floors, electric light. Contract awarded to S. Yrivofsky, 723 Snyder avenue, Philadelphia.

Store and Storage Building, 718 South St., Phila., $18,000. Architect, private plans. Owner, B. Cohen, 644 South St., Phila. Brick, 3 stories, 19x115 feet, slag roof, electric lighting. Contract awarded to C. Belinsky, 5423 Upland Way, Phila.

Pennsylvania Construction News

Residence, Jenkintown, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories. Plans in progress.

Dormitory (add.), Immaculata, Pa. Architect, Paul A. Monaghan, 1520 Locust street, Philadelphia. Owner, Villa Marie College, Rt. Rev. Mother Loyola, on premises. Stone, 3 stories. Sketches drawn.

Sunday School, Danville, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Trinity Lutheran Church, Rev. E. R. Leisey, Danville, Pa. Brick, stone. Preliminary plans in progress.

Church (rebuilding), Sinking Springs, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. John Reformed Church, George R. Reber, secretary, Building Committee, Sinking Springs, Pa. Brick. Plans in progress.

Church, Thirteenth and Amity streets, Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, Lutheran Church of the Nativity, Hampden Heights, Reading, Pa. Stone, steel, 1 story and basement, 40x110 feet, slate roof, hardwood floors, vapor heat, electric light, metal lath, ornamental iron. Plans in progress.

Church and Sunday School, Columbia, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. John's Lutheran Church, Rev. Dr. A. Mehrkam, Columbia, Pa. Brick, 1 seory and basement. Owners ready for bids.

Bank and Residence, Reamstown, Pa. Architect, H. G. Mohn, Mohnton, Pa. Owners, Reamstown Exchange Bank, A. K. Hientzinger, president, Reamstown, Pa. Brick, terra cotta, 2 stories, 48x52 feet, asbestos roof, hardwood floors, electric light, tile work, vault, bronze work. Owners about ready for bids.

Residence, Elkins Park, Pa. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owner, name withheld. Brick, 2½ stories, 53x50 feet, slate roof, hardwood floors, electric light, tile work. Plans in progress. Architects ready for bids in two weeks.

Residence, Villa Nova, Pa., $35,000. Architect, R. Brognard Okie 306 South Smedley street, Philadelphia. Owner, Louis H. Parsons, care of architect. Stone, 2½ stories, hot water heat, electric light, shingle roof, hardwood floors, tile work. Plans completed. Ready for bids in a few days.

Residence, Goshen Church, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, care of Mr. Samuel B. Eckert, care of architect. Stone, frame, 2½

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stories, 30x60 feet. Plans about completed. Ready for bids in about three days.

Consolidated School, Schwenkville, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, School District Lower Frederick Township, Schwenkville Borough and Perkiomen Township, care of W. S. Brey, Schwenkville, Pa. Fireproof, 1 story, 17 class rooms, gymnasium and auditorium, slag roof, composition floors, hollow tile, safety treads, roof ventilators, metal lath, steel sash, bond, iron stairs (heating, plumbing and electric separate. Owners will be ready for bids next week.

Theatre, Pittsburgh, Pa. Architects, Hoffman-Henon Co., Finance Building, Philadelphia. Owners, Stanley Co. of America, 1916 Race street, Philadelphia. Brick, limestone, steel, 20 stories and basement, 100x75 feet, slag roof, cement floors, steam heat, electric light, metal lath, tile and marble work, bond, ornamental iron work, elevators. Architects taking sub-bids.

Church, Red Lion, Pa. Architects, Gemmill & Billmeyer, Rosenmiller Building, York, Pa. Owners, Bethany United Brethren Church, Red Lion, Pa. Stone, 1 story and basement, 85x100 feet, electric light, leaded glass. Too early for details.

Apartment House, Linwood and Argyle roads, Ardmore, Pa. Architect Wm. Macy Stanton, 1915 Land Title Building, Philadelphia. Owner, E. A. Fitts, 40 Linwood avenue, Ardmore, Pa. Brick, stone, steel, 3 stories and basement, 200x200 feet, built-up roof, slate roof, composition, tile and hardwood floors, hollow tile, dampproofing, ornamental iron work, fire, kalamein and hollow metal doors, rolled steel sash, tile and marble work, vacuum heat, electric light, oil burning and refrigeration. H. H. Conway, 5800 Walnut street, Philadelphia, taking sub-bids.

Gymnasium Building, Indiana, Pa., $200,000. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Indiana State Normal School, care of William Keith, Indiana, Pa. Fireproof, brick, concrete, steel, 2 stories and basement, 168x79 feet, bubilt-up roof, gypsum, tile, hollow wtile, waterproofing, iron stairs, steel lockers, kalamein work, steel sash, tile and marble, metal lath (heating, plumbing and electric separate). Architects taking bids due November 20th.

Apartment and Store (add. and alts.), North Tenth street, Reading, Pa. Architect, F. A. Muhlenberg, Ganster Building, Reading, Pa. Owner, Dr. Boyer, care of architect. Brick, 3 stories, 80x24 feet, flat roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids.

Hotel, Altoona, Pa. Architects, Magaziner, Eberhard & Harris, 603 Chestnut street, Philadelphia. Owners, William Penn Hotel Co., Altoona, Pa, Brick, steel, concrete, 6 stories, 100 rooms, slag roof, hardwood floors, elevators, steam heat, electric light, tile work. Plans in progress.

Nurses' Home, Lewistown, Pa. Architects, Witman & Royer, 47 East Market street, York, Pa. Owners, Lewistown Hospital, E. N. Snyder, Lewistown, Pa. Brick, 2 stories and basement, 65x33 feet, slate roof, pine floors, tile work, electric light. Architects will take bids in two weeks.

Store, Apartment and Garages (5), West Chester Pike and Lynn Boulevard, Bywood, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, R .M. Webb, care of Sesqui-Centennial Realty Co., 7219 Market St. Brick, 2 stories, 18x60 feet, slag and tile roof, hardwood floors, hot water heat, electric light, metal lath, tile work, cement work, flush bulks, plate glass. Owner taking sub-bids.

Stores and Apartments (3), Madison avenue and West Chester pike. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, R. M. Webb, care of Sesqui-Centennial Realty Co., 7219 Market St., Phila. Brick, 2 stories, 18x60 feet, slag and tile roof, hardwood floors, hot water heat, electric light, metal lath, tile work, cement work, flush bulks, plate glass. Owner taking sub-bids.

Bank Building, Elkins Park, Pa. Architect, private plans. Owners, Elkins Park National Bank, P. A. Hall, president, Elkins Park, Pa. Hesswin Co., 2047 Arch street, Philadelphia, taking sub-bids due November 11th.

School (mechanical bids), Boothwyn, Pa. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owners, Upper Chichester Township Board of Education, F. Sayder, Boothwyn. Low bidders: Mechanical Equipment Co., 214 South Twelfth street, Philadelphia (heating), $8,244. Electric, Merit Elec. Co., 610 Race street, Philadelphia, $395. Plumbing, W. T. Sowden, Chester, Pa., $2,885.

Residence (alts.), Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Bldg., Owner, Barton W. Currie, Cynwyd, Pa. Architect taking bids due Nov. 11th.

Residence, No. 1 Rosemont, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut Street, Phila. Owner, Pine Brook Development Co., Rosemont, Pa. Stone, stucco, 2½ stories, slate roof. Architects taking bids due Nov. 16th.

Bungalow, Chalfonte, Pa., Architects, Durham Bros., 34 S. 17th St., Phila. Owner, W. H. Irvins, 4605 Morris St., Germantown, Phila. Frame, clapboard, 1 story 48x30 feet, rubberoid roof, pine floors, electric light, plumbing. Owner will build.

Apartment House, Llanerch, Pa Architect, R. R. Neely, 2301 Spruce St., Phila. Owner, name withheld. Brick, stone, 3 stories 82x150 feet, slag roof hardwood floors, vapor heat, electric light, tile and marble work, Murphy beds, incinerator. Architect taking sub-bids.

Garage, Fort Washington, Pa. Architects, Day & Zimmerman, 1600 Walnut St., Phila. Owner, Nicholas J. Roosevelt, Fort Washington, Pa. Brick, 1 story, 4 cars, cement floors, electric light. Architect taking preliminary sub-bids.

Pennsylvania Contracts Awarded

School, Boothwyn, Pa. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owners, Upper Chichester Township Board of Education, F. Sayder, Boothwyn, Pa. Brick, steel, cut stone, 1 story and basement, 110x36 feet, wing 23x60 feet, 26x60 feet (plumbing, heating and electric separate), metal lath, rolled steel sash, galvanized iron skylights, tin-lined doors, floor hardener, ornamental iron work, slag roof, cement and maple floors, hollow tile, metal weather strip, dampproofing, hollow concrete block, area gratings. Contract awarded Wills-Bill Co., 1706 Sansom street, Philadelphia, $37,630.

Lodge Building, Swarthmore College, Swarthmore, Pa. Architect, Edward L. Tilton, 141 East Forty-fifth street, New York. Owners, Phi Delta Theata Fraternity, Swarthmore, Pa. Stone, steel, 2 stories and basement, 40x36 feet, slate roof, pine, oak and cement floors, hot water heat, electric light, metal lath, marble work, bond, ornamental iron work. Contract awarded McNeill Const. Co., Schaef Building, Philadelphia.

Cleaning Shop, Paxtang avenue, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, Harold Fleisher, 21 North Second street, Harrisburg, Pa. Brick, steel, 2½ stories, 40x90 feet, slag roof, concrete floors, roof ventilators, steel sash, steam heat, electric light. Contract awarded to H. E. Wagner, 2306 Chestnut street, Harrisburg, Pa.

Warehouse and Garage, 109 West Penn street, Norristown, Pa. Architect, E. Lane Crawford, Norristown, Pa. Owners, B. E. Block & Brother, 15 West Main sereet, Norristown, Pa. Brick, steel, concrete, 2 stories, 120x117 feet, slag roof, concrete and plank floors, steam heat, electric light, rolled steel sash. Contract awarded H. M. Alderfer, Norristown, Pa.

Garage (alts. and add.), 327 Llandrillo road, Cynwyd, Pa. Owner, J. J. Pocock, on premises. Stone, half timber, plaster, 2 stories, heating and lighting, ext. cement floors, mill work, painting and glazing, plastering. Contract awarded E. E. Hollenback, Inc., 1910 North Marshall street, Philadelphia.

Stores, Montgomery pike and Anderson street, Ardmore, Pa. Architects, Dreher & Churchman, Otis Building, Philadelphia. Owner, James H. Kays, care of architect. Brick, limestone, steel, 2 stories and 1 story, 46x90 feet, 25x60 feet, 20x60 feet, slag roof, cement, oak and pine floors, electric light, metal lath, tile and marble work, kalamein doors, metal bulks, ornamental iron work. Contract awarded A. L. Fretz & Co., Heed Building, Philadelphia.

Residence, Swarthmore College Entrance, Swarthmore, Pa. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owners, Swarthmore College, Swarthmore, Pa. Contract awarded J. O. Kohl, Morton, Pa.

Residence, No. 72, Villa Nova, Pa. Architect, Frank Seeburger, 1424 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories and basement, 63x20 feet, wing 17x51 feet (heating, electric, plumbing reserved), slate roof, oak, pine and cement floors, metal lath, tile work, ornamental iron work. Contract awarded A. Zellfelder, 1324 Walnut street, Philadelphia.

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New Jersey Construction News

Garage (add.), Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Niedt-Ertel Motor Co., 352 South Broad street, Trenton, N. J. Brick, steel, reinforced concrete, second story add., 60x180 feet, built-up roof, concrete floors, roof ventilators, iron stairs, fire doors, steel skylights, stee lsash, heating extension, electric lighting. Plans in progress.

Hunting Lodge, Sea Isle City, N. J. Architect, E. A. Wightman, Bankers' Trust Building, Philadelphia. Owner, Harry Strecker, care of architect. Frame, 2 stories, hot water heat, electric light, shingle roof, hardwood floors. Owner will build. Plans in progress.

Bungalow, Sea Isle City, N. J. Architect, E. A. Wightman, Bankers' Trust Building, Philadelphia. Owner, George Hardie, Sea Isle City, N. J. Frame, 1 story, 16x38 feet, shingle roof, pine floors, hot water heat, electric light, tile work. Owner will build. Plans in progress.

Home (add.), Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Home for Indigent Women and Old Ladies, Trenton, N. J. Brick, frame, steel, 2 stories, 40x50 feet, slate roof, linoleum and pine floors, heating extension, electric light, metal lath, tile work. Architect will be ready for bids in a few days, due November 15th.

School Building, Merchantville, N. J. Architect, Arnold H. Moses, Camden, N. J. Owners, Board of Education, Mr. Frey, Merchantville, N. J. Ready for bids in three weeks.

Garage and Service Station, Mt. Holly, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Burlington County Road Department, Alfonzo Adams, Mt. Holly, N. J. Brick, steel, 1 story and basement, 126x60 feet (plumbing, heating, electric separate), asbestos corrugated roof, cement floors, rolled steel sash. Certified check, 5 per cent. Owners taking bids due Novembemr 12th, 10.30 A. M.

Porch (add.), Almshouse, New Lisbon, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Burlington County Board of Chosen Freeholders, Camden, N. J. Owners taking revised bids due November 12th, 10.30 A. M.

Residence and Garage, 1030 Beideman avenue, Camden, N. J., $3,500. Architect, private plans. Owner, Louis Forrester, Jr., Camden, N. J. Frame, 1 story, 24x36 feet, slate surface roof, warm air heat, electric light. Permit issued.

Spanish Bungalow, Wildwood Gardens, N. J. Architect, Paul Livingston Boyd, R. A., 6943 Limekiln pike, Philadelphia. Owner, George A. Boyd, 571 North Sixth street, Philadelphia. Frame and stucco, 1 story, 34x46 feet, slag and glazed tile roof, pine floors, hot water heat, electric light, metal lath. Owner taking sub-bids.

English Bungalow, Wildwood Gardens, N. J. Architect, Paul Livingston Boyd, R. A., 6943 Limekiln pike, Philadelphia. Owner, George A. Boyd, 5701 North Sixth street, Philadelphia. Frame and shingle, 1 story, 38x50 feet 3 inches, shingle roof, pine floors, hot water heat, electric light, tile work. Owner taking sub-bids.

Convention Hall, Atlantic City, N. J. Architects, Lockwood, Greene, Inc., 1 Pershing Square, New York. Owners, Atlantic County Board of Commissioners, Harry T. Headley, Director, Streets and Public Improvements, City Hall, Atlantic City, N. J. All bids rejected. Will readvertise.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Construction of storm water drain on State Highway Route 1, Cranbury, Middlesex County, double strength vitrified tile or reinforced concrete pipe of various sizes, manholes and catch basins. Lowest bidder: Celentana & Wenland, Trenton, N. J., $30,764.80.

Bridges and Viaducts, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Construction steel and concrete bridges, foundations and other classes of work described in plans and specifications, Sections 11 and 12, Route 1, Contract 4, Newark, N. J., steel bridge, 240 feet long, over Central Railroad of New Jersey at Brill's Junction. Concrete viaduct, steel in concrete, 2,100 feet long, in City of Newark. Lowest bidder: O'Neill Company, 127 East Mermaid lane, Philadelphia, $957,860.40.

Cafe Building, Hammonton, N. J. Architect, Chas. J. Mitchell, 15 S. 21st St., Phila. Owner, name withheld. Brick, 1 story, 60x20 feet, slag roof, pine floors, plumbing, cement work, hot water heat, electric light. Plans in progress ready for for bids in two weeks.

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New Jersey Contracts Awarded

Garage, Seventh and Linden streets, Camden, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Bridge Plaza Parking Garage, care of architect. Brick, reinforced concrete, steel, 4 and 5 stories and basement, 186x274 feet, slag roof, cement and composition floors, steel, safety treads, slag roof, tin-clad and kalamein doors, waterproofing and dampproofing, metal lath, rolled steel sash, bond, floor hardener, ornamental iron work, demolition, rolled steel shutters, steel partitions. Contract awarded Barclay White Co., 1713 Sansom street, Philadelphia.

Princeton Hospital and Power House, Princeton, N. J. Architect, Shirley W. Morgan, 129 East Fifty-sixth street, New York City. Owners, Princeton Hospital, Princeton, N. J. Brick, carpentry, 3 stories (heating, plumbing, electric light reserved), mill work, slag and copper roof, concrete floors, tile and marble work, linoleum floors, elevator, dumb waiter, concrete work, painting and glazing, hardware, iron and steel work. Contract awarded Mathews Const. Co., Princeton, N. J.

Residences and Garage (10), 2571-99 Baird Boulevard, Camden, N. J., $5,000 each. Architect, private plans. Owners, Baird Boulevard Homes Co., on premises. Brick, 2 stories, 19x44 feet, slag roof, pine and cement floors, hot water heat, electric light. Contract awarded to Robert Schaal & Sons, 2719 Pierce avenue, Camden, N. J.

Club Building (add. and alts,), 424 Linden street, Camden, N. J. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owners, Women's Club, 424 Linden street, Camden, N. J. Brick, 1 story add., 4x16 feet, general alterations. Contract awarded to John L. Hahn, 306 Richey avenue, West Collingswood, N. J.

Building, 2124 River Ave., Camden, N. J., $7,000. Architect, private plans. Owner, Norris C. Branin, Jr., 22nd and River Ave., Camden, N. J. Block, 1 story, 60x75, rubberoid roof. Contract awarded to Frank Howard, Millville, N. J.

Garages (18), 544-22 Mt. Vernon St., Camden, N. J., $4,000. Architect, private plans. Owner, Edward Schuster, Broadway & Chestnut St., Camden, N. J. Block, 1 story, 9-6x18 feet, slag roof, cement floors. Contract awarded to B. P. Barracliff, Oaklyn, N. J.

Miscellaneous Construction News

Laundry Building, Second and Washington streets, Wilmington, Del. Architect, C. R. Hope, DuPont Building, Wilmington, Del. Owners, Associated Laundries, care of architect. Steel, concrete, brick, 4 stories and basement, 65x80 feet, Johns Manville roof, concrete floors, elevators, safety treads, waterproofing, dampproofing, iron stairs, fire doors, skylights, steel sash, tile work, metal lath, electric light. Architect ready for revised bids.

Manufacturing Building, Wilmington, Del. Architects, Monks & Johnson, 99 Chauncy street, Boston, Mass. Owners, J. Frank Darling Co., 253 Thirty-sixth avenue, New York. Reinforced concrete, steel, brick, 5 stories and basement, 150x150 feet, 1 story and basement, 150x150 feet, slag roof, cement floors, steam heat, electric light, metal lath, steam heat, electric light, rolled steel skylights, ornamental iron work. Owners taking bids due November 17th.

Community Garage (12 garages), Wilmington, Del., $3,000. Architect, private plans. Owner, Patrick Fahey, 122 North Clayton street, Wilmington, Del. Concrete block, 1 story, 10x18 feet, cement floors. Permit issued.

Residence, 407 Porter street, Wilmington, Del., $2,800. Architect, private plans. Owner, Benjamin F. Healey, 303 Broome street, Wilmington, Del. Brick, stone, 2 stories, 16x38 feet, slag roof, pine floors, electric light, pipeless heat. Permit issued.

Highway Work, Delaware. Owners, State Highway Department, Dover, Del. Owners taking bids due December 1st at 2 P. M.

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Contract 72-A, superstructure South Market Street Bridge over Christiana River, Wilmington, Del. Metal in bascule span, metal on piers, machinery, concrete, motors, switchboards and accessories, single arm buda electric crossing gates, magnetic wigwag flagmen, electric sump pumps, creosoted timber-floor-nailing strips, creosoted timber walks, traffic plates, fastenings, operators' houses, marine lights, reinforcing steel, sidewalk slabs, rack supports, concrete, railing, iron balance blocks, removing old structure and temporary approaches.

Contract CS56, Greenwood-Adamsville, 4.282 miles. Clearing, grubbing, excavation, borrow, cement concrete pavement, longitudinal metal joint, concrete, reinforcement, metal pipe, R. C. pipe.

Contract 74, Adamsville-Hickman, 2.818 miles. Clearing, grubbing, excavation, borrow, cement concrete pavement, metal joint, concrete, reinforcement, R. C. pipe, wire cable guard rail, wood shoulder curb.

Contract 75. Storage shed, State road, Delaware.

Bungalow, Arden, Del. Architects, Durham Bros, 34 S. 17th St., Phila. Owner, name withheld. Stone, 1 story, 30x50 feet, slag roof, concrete floors, electric light, plumbing. Plans in progress, ready for bids in a few days.

Miscellaneous Contracts Awarded

Residence, Wilmington, Del. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, W. L. Edison, Wilmington, Del. Stone, hollow tile, stucco, 2½ stories, electric light, shingle roof, hardwood floors, tile and marble work. Contract awarded J. H. Hutchinson, Newark, Del.

Residences (2), Twenty-eighth street, Wilmington, Del., $12,000. Architect, private plans. Owner, William Petrillo, Shellpot, Del. Brick, stone, 2 stories, 20x31 feet, 7x12 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to A. Fortunato, 1337 West Fourth street, Wilmington, Del.

Storehouse (add.), 421 West Front street, Wilmington, Del., $4,500. Architect, private plans. Owners, Reeves, Parvin & Co., on premises. Brick, second stor add., 38x59 feet, slag roof. Contract awarded to S. Jackson, 831 Orange street, Wilmington, Del.

Class Rooms and Biology Bldg., Fordham, N. Y. Architect, Emil G. Perrot, 1211 Arch St., Phila. Owner, Fordham University, Fordham, N. Y. Stone, steel, fireproof, 2 stories and basement, 49x150 feet, slag roof, maple floors, steam heat, electric light, tile work. Contract awarded Sobray Whitcomb Co., 105 W. 40th St., New York.

Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 27, 1926. Sealed Proposals will be opened in this office at 3 P. M., November 23, 1926, for the construction of a brick-faced, stone-trimmed Post Office Building of approximately 6,850 square feet ground area at Montclair, N. J. Drawings and specifications may be obtained from the Custodian of the site at Montclair, N. J., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(*Continued from Page* 712)

Despite a decrease of 10 percent. from the September volume as noted last month, the total for the first ten months of 1926 stands 1½ per cent. above the corresponding 1925 figure.

The amount of construction work handled during October was exactly twice the figure registered as the monthly average in 1913.

A study of the statistics shows that no decrease in the volume of construction has extended through more than one month. This fact is being viewed as remarkable in view of the high peak figure set last July when all records for a single month were broken. Following a decrease in August, operations again increased in volume in September.

October operations stand at the 200 point mark on a scale which places the 1913 monthly average on the 100 point basis. The average for 1925 was 176.

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The Address Section in the forepart of the book consists of an alphabetically arranged list of approximately 75,000 important manufacturers, their home office addresses and, in many instances, the names and addresses of the local distributors for their products.

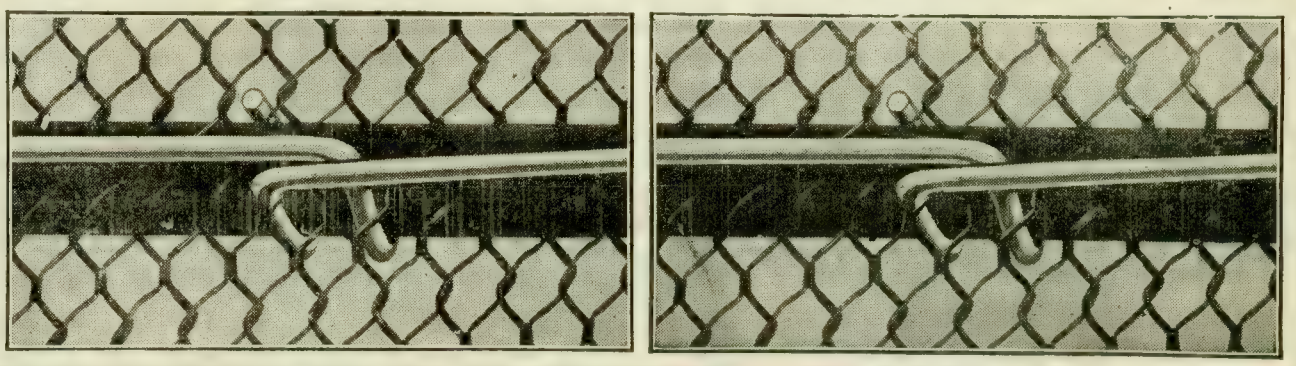
The Classified Material Section of nearly 1700 pages lists approximately 15,000 different kinds of material, equipment and supplies from Abrasives to Zobos, with the names of prominent manufacturers listed alphabetically beneath each classification.

The Trade Name Section in the back of the book contains the trade-names of approximately 75,000 products together with the manufacturers thereof, thus enabling those who remember only the trade-name of a product to find the manufacturer.

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FORESTRY NEEDS DISCUSSED BY SECRETARY JARDINE AND CHIEF FORESTER GREELEY

Lack of financial preparedness on the part of the Federal Government was given as one of the causes of the heavy public losses from fires in the National Forests during the past season by Secretary of Agriculture Jardine in an address before a meeting of State Foresters recently held at Washington. "What we need to protect these great public properties," the Secretary continued, "is to have in advance enough money, men, and facilities to prevent fires or to cope with them before they grow large. As it is now we are forced to spend large sums of money after the fires have got out of bounds and then ask Congress to make up the costs through a deficiency appropriation. What we need is the advanced appropriation sufficient to meet the National forest fire problem. And the Federal Government must furthermore discharge the financial obligations it has assumed toward the States under the Clarke-McNary cooperative forestry act."

State rather than Federal activity in forest conservation must be looked to for the main progress in timber growing from now on, W. B. Greeley, Chief of the Forest Service, told the foresters. The Federal forest policy for a good many years to come, he said, was completed with the enactment of the Clarke-McNary Law in 1924, providing for financial co-operation in forest fire control between the Federal Government, the States, and private landowners, and the chief development henceforth should be in the forestry undertakings of States, local institutions, and individuals.

Fifty million acres of forest land should be acquired by the States, counties, and muncipalities, in addition to their present holdings of 11 million acres, said the Chief Forester, and the Federal Government should add 8 or 10 million acres to its present forest area of 89 million acres. "Perhaps the greatest single obstacle to the rapid spread of timber growing in the United States," he continued, "is the unstable ownership of forest land; and it is incumbent upon public agencies to put greater stability into our forest land situation by a vigorous extension of public forest ownership, not only as meeting an urgent problem in land utilization but as offering substantial public returns in the long run. Moreover the more demonstration we can get in all parts of the country of good forest practice and profitable forest management the more will the whole process of reforestation by all agencies be stimulated."

Pennsylvania has bought a great deal of forest land in the last 25 years, according to Major R. Y. Stuart, State Forest Commissioner. The average price paid was $2.26 an acre and this land is worth $10 an acre today. So successfully has State forest ownership and management worked out that a bond issue of $25,000,000 for buying additional forest land will be submitted to the voters of Pennsylvania next year, Major Stuart told the meeting.

Likewise urging that the Government meet these financial obligations for fire control, Colonel Greeley emphasized that the disastrous forest fire season just ended demonstrates that mastery of the fire menace demands not only men and money, but the perfecting of the science and art of fire fighting on a big scale. In spite of the fine progress made both by private, State, and Federal agencies, much remains to be done which requires organized research and a better co-ordination of fire fighting forces than has yet been achieved.

Taking up the theme of forest fire research, Austin F. Hawes, State Forester of Connecticut and newly elected president of the Association of State Foresters, announced that the Weather Bureau expects as soon as sufficient funds are available to assign an expert to the New England States, as it has already assigned them to other forest regions, to study methods of forecasting bad forest-fire weather.

Detailed statistical records are available of a great many thousands of forest fires in various parts of the United States during the past 10 or 15 years. Progress is being made in different forest regions in analyzing and interpreting the statistics, and much light is being thrown from this source on causes of fires, regions of special hazard, the success of different methods of combating them, and on many other aspects of the fire problem.

The various lines of forest fire research conducted by the Forest Service and the Weather Bureau in co-operation with the States and private protective agencies were outlined by Mr. Hawes, S. T. Dana, director of the Northeastern forest experiment station, and by W. R. B. Hine, State Forester of Louisiana.

"The Clarke-McNary Law opens the way for a study of forest fire problems such as we never had before," said Paul G. Redington, Assistant United States Forester in Charge of Public Relations. "It is an opportunity to compare methods and results in different regions and different States for mutual benefit and to work out new methods and principles in forest fire control. Investigations of fire control have been completed in four States by the State and Federal Forest officers acting jointly and the results will soon be made public."

Calling the Clarke-McNary forestry law a piece of neighborly legislation for the benefit of all the owners of forest land in the United States, Mr. Redington asserted the law is peculiarly rich in opportunities for educational contact. "It provides for direct assistance to those engaged in two of the most widespread and important industries—agriculture and lumbering. It is not mandatory but is designed to encourage all those agencies that have a self-interest in keeping our forest lands productive. It provides the elements necessary for a great educational effort—the accumulation of knowledge, the dissemination of this knowledge by direct contact, and the demonstration of good forestry methods.

"It will be the function of the Forest Service to coordinate and, where necessary, to stimulate this educational drive to see that it is nation-wide in character."

The educational work in foresty among farmers provided by the Clarke-McNary law is of the utmost importance to our future timber supply, according to Mr. Redington, because a third of our total forest area is in farms. Likewise the splendid efforts of the States in providing millions of young trees for planting on farms and elsewhere is not only directly beneficial in adding to the timber supply, but has a great educational value.

Carrying Out the Clarke-McNary Law

One of the prime objectives of the Clarke-McNary Law, according to E. O. Siecke, State Forester of Texas, was to build up strong forestry departments in the States. The methods by which Federal appropriations for forest fire control, growing of forest nursery stock, and educational work among farmers are apportioned among the States was fully explained by J. G. Peters, Chief Federal Inspector under the Clarke-McNary Law. "The Federal Government is not beginning to meet its share of fire control under the present cooperative program," said Mr. Peters. "At present it is allotting to the States a little more than $600,000 a year, whereas the States and private owners are spending in excess of four million dollars a year. To meet the Government's share, the present Federal appropriation needs to be raised nearly $1,100,000. Even when it is raised to that amount, however, the total job of fire control will be only about half done. We estimate the total cost of reasonably protecting all the State and private forest lands in this country at about $10,200,000. Under the Clarke-McNary Law, the States and private owners would pay about $7,700,000 and the Federal Government about $2,500,000."

Forest Tax Investigation Under Way

A nation-wide investigation of forest taxation has just been launched by the Department of Agriculture, the work having been initiated by the Forest Service last July in the forest regions of Minnesota. It will soon be extended to

Wisconsin and Michigan and thereafter to the other important forest regions of the United States.

Landowners are carrying a heavy burden of taxation, Secretary Jardine asserted, and one of our most important tax problems is to make sure that they are not forced to carry more than their share, for excessive land taxation discourages the production of crops, whether of food or of timber.

"The forest tax problem," said Dr. Fred R. Fairchild, professor of economics at Yale, in charge of the Government investigation, "is an integral part of the general property tax problem. It can not be isolated from other property taxation and studied alone, but must be studied in its relation to all other forms of the general property tax. Before we can successfully revise local taxation, whether of forest or any other class of land, we must have a thorough understanding of the needs of the local government for roads, schools, and other public purposes as well as of the sources of tax revenue and of the comparative load borne by all classes of property. So our investigation has got to embrace the whole field of property taxation, and if I am not mistaken it will throw light not only on forest taxation but on all phases of property taxation. But we must not expect results too soon. We are trying to develop basic principles of property taxation as applied to growing forests. These principles can not be formulated out of thin air but must be based on a patient, detailed, intensive field study of taxation practice in typical selected counties throughout the country. When we get these principles worked out, however, I feel sure they will be of assistance to the States in framing fair methods of forest taxation."

"A ZONING PRIMER" AND "A STANDARD STATE ZONING ENABLING ACT"

Revised editions of "A Zoning Primer" and "A Standard State Zoning Enabling Act", under which municipalities may adopt zoning regulations," are announced by the Division of Building and Housing of the Department of Commerce. These publications, both by the Advisory Committee on Zoning, appointed by Secretary Hoover, rank among the most popular pamphlets issued by the Department, more than 50,000 copies of each having been sold by the Superintendent of Documents.

The "Primer" explains in popular style the methods by which zoning protects property and health and avoids unnecessary scrapping of serviceable buildings. It was first issued in 1922. "Since that date the number of zoned municipalities in the United States has increased from less than a hundred to more than 450, and the constitutional status of zoning has been upheld in thoroughgoing decisions of the highest courts of such states as New York, Massachusetts, Ohio, Illinois and California. There has been a wealth of added experience in the application of zoning to the most varied problems in many types of cities and villages. The revised edition takes into account the developments of the past four and a half years, and includes a list of zoned municipalities by states.

"A Standard State Zoning Enabling Act" has been embodied in the laws of 20 states since it was first issued in preliminary form three years ago. Court decisions on cases arising under it have been studied with the greatest care, and the only change made in the text is in the section on "Enforcement and Remedies," where the other means of securing compliance with zoning ordinances are strengthened by adding the following:

"The local legislative body may provide by ordinance for the enforcement of this act and of any ordinance or regulation made thereunder. A violation of this act or of such ordinance or regulation is hereby declared to be a misdemeanor, and such local legislative body may provide for the punishment thereof by fine or imprisonment or both. It is also empowered to provide civil penalties for such violation."

Some of the introductory statements have been revised, and, in response to requests, a new foot-note has been drafted on the subject of empowering communities to exercise zoning control over areas which are adjacent to the city's limits but do not lie within any other incorporated city or village.

"A Zoning Primer" records that "on January 1, 1926, the 426 zoned municipalities in the United States had a total of more than 27,000,000 inhabitants, exceeding half the total urban population of the United States. Thus a majority of all people living in incorporated places with 2,500 or more people now enjoy the protection and other benefits of zoning. On January 1, 1921, there were only 35 zoned cities and towns, with less than 11,000,000 population, so that in a period of five years the number of zoned municipalities increased more than twelvefold."

"Undoubtedly the most convincing statement which could be made in regard to the value of zoning is that so many of the large cities of the United States now feel that it is impossible to continue to develop further without the adoption of a building zone plan. New York, Chicago, Boston, Baltimore, Pittsburgh, Los Angeles, Buffalo, and San Francisco, had the list of the large cities that already have zoning ordinances in operation. On January 1, 1926, 48 of the 68 largest cities in the United States, having in 1920 a population of more than 100,000 each, had adopted zoning ordinances, while most of the others had zoning plans in progress. Moreover, it is not alone our larger cities which realize the necessity for timely regulation of the uses of property. Hundreds of the smaller cities and towns, especially in California, Illinois, Massachusetts, New Jersey, New York, Ohio, Pennsylvania, Wisconsin, but also in many other States, have passed zoning ordinances and hundreds more were reported as having zoning plans in progress."

The Advisory Committee is composed of the following men:

Charles B. Ball, Chicago, Ill., Secretary-Treasurer, City Planning Division, American Society of Civil Engineers.

Edward M. Bassett, New York, N. Y., Counsel, Zoning Committee of New York.

Alfred Bettman, Cincinnati, O., Director, National Conference on City Planning.

Irving B. Hiett, Toledo, O., Ex-President, National Association of Real Estate Boards.

John Ihlder, Washington, D. C., Manager, Civic Development Dept. of the Chamber of Commerce of the United States.

Morris Knowles, Pittsburgh, Pa., from the Chamber of Commerce of the United States; Chairman, City Planning Division, American Society of Civil Engineers.

J. Horace McFarland, Harrisburg, Pa., Ex-President, The American Civic Association.

Frederick Law Olmsted, Redondo Beach, Calif., Ex-Pres., The American Society of Landscape Architects; Ex-Pres., American City Planning Institute.

Lawrence Veiller, New York, N. Y., Secretary and Director, The National Housing Association.

John M. Gries, Chief, Division of Building and Housing, Department of Commerce.

Thomas C. Trafford, Builder, formerly of 1613 Sansom St., Philadelphia, has moved his offices to 2335-37-39 N. 15th St., Philadelphia.

Albert F. Schenck, Architect, announces the removal of his office to 301 Harrison Bldg., 4 S. 15th St., Philadelphia.

John Emlen Bullock, Architect, has moved his offices from 34 S. 17th St., Philadelphia, to 142 Allen's Lane, Mt. Airy, Philadelphia.

Harry A. Short Co., Engineering Contractor, Plumbing and Heating, have moved to 1517 Pine St., Philadelphia.

Durham Bros., Architects, formerly of 1611 Sansom St., Philadelphia, have opened new offices at 34 S. 17th St., Philadelphia.

CERTIFICATES OF CRAFTSMANSHIP ISSUED

Philadelphia Building Congress Makes Second Annual Award

At a dinner meeting held recently, in the Poor Richard Club, attended by all elements in the building industry, with many of the recipients present in person, the Philadelphia Building Congress desiring to encourage and to preserve in Philadelphia and its metropolitan area the true spirit of craftsmanship, and to give recognition to those whose skill, patience and toil have builded well in the community, awarded Craftsmanship Certificates to sixty-three individuals and firms, as follows:

Guildsmen—to those engaged in the Crafts, who have shown especial skill in developing the artistry or handicraft possibilities in their particular field of work, such as designing, laying off, modelling, carving, wrought-work, and have given visible evidences of individuality—a Certificate as a Guildsman—was awarded to: James Donnelly, Bricklaying; John Kappes, Bricklaying; Thomas Kelly, Bricklaying; Martin J. Lesler, Bricklaying; John McGowan, Bricklaying; James O'Loughlin, Bricklaying; William Reinhold, Bricklaying; Charles Fanalle, Foremanship in Stone Masonry; James Liberi, Metal Work; Louis Milione, Sculptor; J. H. Bass, Wood Carving; John M. Schaefer, Jr., Wood Carving.

Master Craftsmen—to those who have designed, specified and supervised buildings which have been successfully erected, who have shown knowledge of appropriateness of design with the most advantageous use of materials, who have encouraged pride of craft on the part of co-worker, and have given individual recognition of it when deserved—a Certificate as a Master Craftsman—was awarded to: Mellor, Meigs & Howe, Architecture.

Co-operating Master Craftsmen—to those who have satisfactorily either erected buildings or other structures or parts thereof, or installed equipment therein, and have encouraged pride of craft on the part of co-workers and have given individual recognition of it when deserved—a Certificate as a Co-operating Master Craftsman—was awarded to: Wm. R. Chapman & Sons, Brickwork; Hauser & Green, Brickwork; Hunsperger, Inc., Brickwork; John B. Kelly, Brickwork; Frank S. Stites, Brickwork; M. E. Arnold & Co., Electrical Contracting; Edgar J. Ellis, (posthumous) Electrical Work; Barclay, White & Co., General Contracting; Bowers' Bros. & Co., Heating of Buildings; Edward R. Sabin, Heating of Buildings; E. P. Henry Co., Slate Work; Toll Brothers, Stone Masonry and Brickwork.

Craftsmen—to those, now designated by various names, such as Mechanics, Artisans, Skilled Workers, etc., who in any building Craft have shown skill, ability, efficiency, willingness and the desire to improve their own knowledge and technique as well as that of fellow workers, helpers or apprentices—a Certificate as a Craftsman—was awarded to: Chas. C. Adams, Bricklaying, Alexander Bell, Bricklaying; George Bell, Bricklaying; William Benson, Bricklaying; Watson Burton, Bricklaying; Frank Burkett, Bricklaying; Michael Connolly, Bricklaying; James Francis, Bricklaying; James Goodfellow, Bricklaying; Harry G. Holleran, Brickaying; J. E. Krausse, Brickaying; Max Mau, Bricklaying; Martin Mulkeen, Bricklaying; Thos. Slater, Sr., Bricklaying; Warren Zearfoss, Bricklaying; John H. Tegler, Electrician; Joseph Dold, Foremanship in Bldg. Construction; Albert J. Schaefer, Foremanship in Building Construction; Domenico Vecere, Foremanship in Building Construction; William Blair, Heating of Buildings; Louis Bodo, Iron Work; Joseph W. Keller, Iron Work; I. T. Worthley, Iron Work; Harvey Biesicker, Lathing; Joseph Amey, Master Mechanic; Harry Clegg, Master Mechanic; G. Donato, Modeling; E. H. Clevenger, Mural Decorating; L. M. Gilbert, Plastering; Frank DeGuieseppe, Scagliola Work; Maggs Bros., Slate Roofing; Joseph McVaugh, Stone Masonry; J. P. Mollencoff, Supt. of Plastering.

Junior Craftsmen—to those, now designated as Apprentices, Learners, etc., who, after satisfactory completion of such terms as shall be deemed sufficient, indicate the characteristics described in the paragraph relating to Craftsmen—a Certificate as a Junior Craftsman—was awarded to: Albert McMullin, Apprentice in Plastering; Edmond F. Venzie, Apprentice in Plastering; John Connelly, Bricklaying; Michael Connors, Bricklaying; Albert C. Shieling, Bricklaying.

D. Knickerbacker Boyd, Architect, President of the Congress, was the presiding officer, and inspiring addresses were given by Paul A. Davis, President and C. C. Zantzinger, Vice President, Philadelphia Chapter American Institute of Architects, Mr. L. F. MacNeill, Philadelphia Building Chapter, Associated Pennsylvania Constructors, Mr. Ransom C. Gaskill, Atlantic City Brotherhood of Carpenters and Joiners, Thomas F. Armstrong, Builders' Exchange and Employers' Association, John D. Cassel, Superintendent of Buildings, Board of Public Education, Frank Bowden, Bricklayers' Union No. 1, Robert E. Lamb, Builder, and others; after which the Certificates were distributed with most appropriate remarks by John Irwin Bright, Chairman of the Committee on Awards. A feature of the presentation was the appearance in person of the employers of many of the craftsmen and their remarks in eulogy of the workmanship done by the men who were so signally honored.

Secretary C. M. Little read telegrams and letters of congratulations and commendation and wishing the recipients continued success from R. H. Shreve, President, New York Building Congress—W. Stanley Parker, President, Boston Building Congress—F. U. Murphy, President, Oregon Building Congress—Dwight L. Hoopingarner, Executive, American Construction Council—Wm. O. Ludlow, Chairman, Craftsmanship Committee, New York Congress, and from the Presidents of the Philadelphia Chamber of Commerce, the Real Estate Board and other organizations.

Building operations during the winter promise to gain a volume unusual for that period of the year. By so doing, they will place this year's construction activities on a new record level above that established in 1925, according to statistics developed by the Associated General Contractors of America.

Mainly, the outlook for these unusual winter activities is based upon the fact that a vast amount of building contracts recently have been awarded. The volume of these awards in September was 6 per cent. greater than the total registered during the corresponding month of last year.

In addition, significance is being attached to the fact that the volume of contracts awarded during the first nine months of this year is 9 per cent. greater than the figure set by the first nine months of 1925, while the volume of construction actually undertaken during the first 10 months of 1926 is only 1½ per cent. greater than the corresponding total for last year. This combination of facts is being accepted as indicating that a large amount of awards soon are to be translated into terms of actual operations.

The index number for volume of contracts awarded, based on the 1913 average as 100, stands at 244 for September. This follows the peak figure of 264 for August which broke all previous single-month records for award of contracts. In only two months during 1925 and 1926 has the mark for volume of contracts awarded reached a plane higher than that which it gained in September.

The valuable man in any business is the man who can and will co-operate with other men. The foreman who opposes the introduction of a new man into an institution and fights every innovation which he himself does not suggest, is doomed to a gradual and creeping defeat. Men succeed only as they utilize the services and ideas of other men. Co-operate!

The impractical dreamers are not the architects, but the clients themselves, as a rule.

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
Architectural Cast Cut Stone Co.....Westmont, N. J.

AREA GRATINGS
Irving Iron Works.....1015 Chestnut St., Phila.

ARTESIAN WELLS
Ridpath & Potter Co.,
S. W. Cor. 22nd and Cambria Sts., Phila.

ARTISTS' AND ARCHITECTS' SUPPLIES
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.
The Atlas Blue Print Co.....34 S. 16th St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS
Blue Print Shop .....1520 Sansom St., Phila.
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.
The Atlas Blue Print Co.....34 S. 16th St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER
Blue Print Shop .....1520 Sansom St., Phila.
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BOILER AND PIPE COVERINGS
Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

BRICK
Cox, Janeway, & Co..Real Estate Trust Bldg., Phila.
J. M. & C. M. Siner.Church and Tacony Sts., Phila.
Excelsior Brick and Steel Sales Co.,
Bankers' Trust Bldg., Phila.

BRICK (Face, Common, Paving)
Ketcham, O. W. .....121 N. 18th St., Phila.

BUILDERS
Armstrong & Latta Co.....1926 Sansom St., Phila.
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Levitt, Paul J. .....1101 S. 2nd St., Phila.

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Service Supply Corporation,
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West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK
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CAST STONE
Architectural Cast Cut Stone Co.....Westmont, N. J.

CAULKING
Sterling Products Co. .....831 S. 49th St., Phila.

CEMENT
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The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK
D'Lauro, John .....7732 Ardleigh St., Phila.
Massiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE WORK
Massiah, Frederick..Juniper and Cypress Sts., Phila.

CONTRACTORS' EQUIPMENT
Lee T. Ward Co. .....617 Filbert St., Phila.
Service Supply Corporation..20th and Venango Sts.

CORK FLOORING
Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.
Selby Battersby & Co. .....810 Noble St., Phila.

CURTIS WOODWORK
Gillingham Co.....Norris and Richmond Sts., Phila.

DAILY BUILDING NEWS
Building News Pub. Co.....1530 Chestnut St., Phila.

DAMPPROOFING
Anti-Hydro Waterproofing Co.,
24th and Parkway, Phila.
Barnett Bingswanger.....829 N. 3rd St., Phila.
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Master Builders Co. .....Otis Bldg., Phila.
Truscon Laboratories .....1505 Race St., Phila.

DOOR BEDS
Murphy Door Bed Co.....512 Bulletin Bldg., Phila.

DRAWING MATERIALS
Robbins, Chas. H., Co.....1729 Sansom St., Phila.
The Atlas Blue Print Co.....34 S. 16th St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila

FENCES
Pettit, Frank, Ornamental Iron Works,
1505 N. Mascher St., Phila.
Potts, Horace T., & Co...Erie Ave. & "D" St., Phila.
Reisbord, Wolf .....138-140 N. 55th St., Phila.

FIREPROOFING
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES
H. E. Lingo & Son .....Camden, N. J.

FLOOR HARDENER
Anti-Hydro Waterproofing Co., 24th and Parkway
Concrete Waterproof Paint Co..829 N. 3rd St., Phila.
Master Builders Co. .....Otis Bldg., Phila.
Truscon Laboratories .....1505 Race St., Phila.

FLOORING (Rubber Tile)
Hamilton Rubber Mfg. Co...2313 Walnut St., Phila.
Selby Battersby & Co.....810 Noble St., Phila.

FLUE LINING
Clausen, Wm. H. ....27th and Diamond Sts., Phila.

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Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Thomson, Wm., Inc. .....64 N. 2nd St., Phila.

GARAGE HEATERS
Fleck Bros. Co. .....50 N. 5th St., Phila.

GAS RANGES
Fleck Bros. Co. .....50 N. 5th St., Phila.
Miller, Henry M. .....46-48-50 N. 2nd St., Phila.
Philadelhia Gas Range Co. ...1026 Arch St., Phila.
Thomson. Wm., Inc. .....64 N. 2nd St., Phila.

GRANITE
Architectural Cast Cut Stone Co.....Westmont, N. J.

HEATING CONTRACTORS
Bowers' Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....7038 Gray's Ave., Phila.

HEATING BOILERS
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HOLLOW TILE
Clausen, Wm. H. ....27th and Diamond Sts., Phila.
Cox, Janeway & Co...Real Estate Trust Bldg., Phila.
Ketcham, O. W. .....121 N. 18th St., Phila.

HOT WATER GENERATORS
Edwin Elliott Co. .....560 N. 16th St., Phila.

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Philadelphia Fire & Marine Ins. Co.,
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Smith-Austermuhl Co. .....Camden, N. J.

IRON AND STEEL BARS AND PLATES
Potts, Horace T. & Co....Erie Ave. and D St., Phila.

IRON AND STEEL (Structural and Ornamental)
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Lederle, Robt. B., & Co...Witherspoon Bldg., Phila.
Livezey, Thos. H...American and Luzerne Sts., Phila.
Montgomery Iron & Steel Co..2500 Duncan St., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
Pettit, Frank, Orna. Iron Works.
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Reisbord, Wolf .....138-140 N. 55th St., Phila.
Whartenby, Harry A. ....1823 Brandywine St., Phila.

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LIGHT IRON CONSTRUCTION
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LUMBER
Gillingham Co. ..Norris and Richmond Sts., Phila.
Ketcham, Howard.....3rd and Girard Ave., Phila.
Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

MARBLE AND MOSAIC
Belfi Bros. Co. .....1923 Market St.. Phila.
Camden Tile Co. .....Camden, N. J.
Italian Marble Mosaic Co. .....433 Spruce St., Phila.
Pennsylvania Tile and Mosaic Co.,
1637 Wood St., Phila.
Roman Mosaic & Tile Co.....435 Green St., Phila.

MASON BUILDER
D'Lauro, John .....7732 Ardleigh St., Phila.
Mercaldo, Vincent..411 Locust Ave., Germantown, Pa.

METAL LATH
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.
John S. Raynor .....2300 E. Lehigh Ave., Phila.

METERS
Phila. Meter Co. ....Real Estate Trust Bldg., Phila.

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Shaw, James, & Son Co.,
52nd and Woodland Ave., Phila.

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Joseph Sterling .....Camden, N. J.

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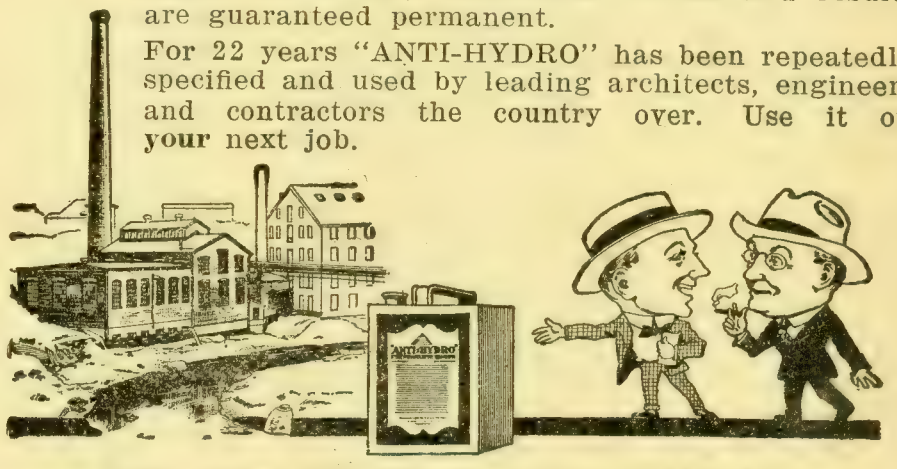
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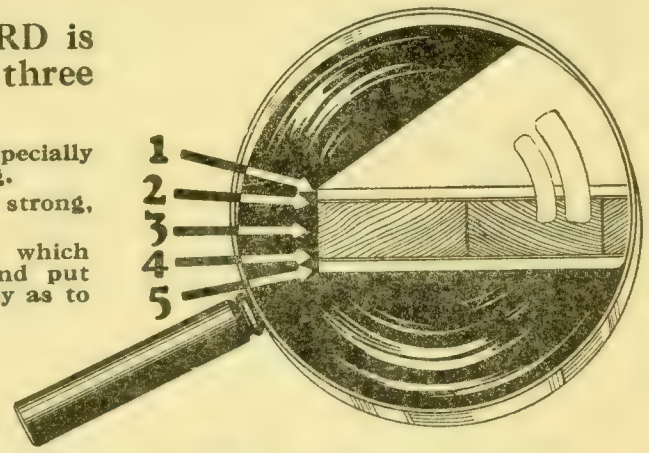
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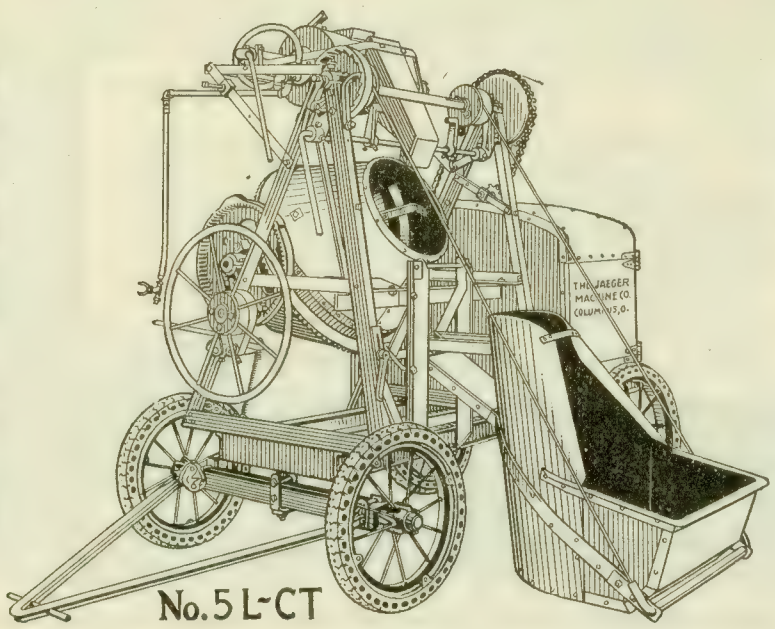
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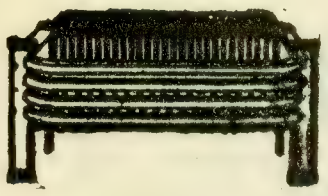
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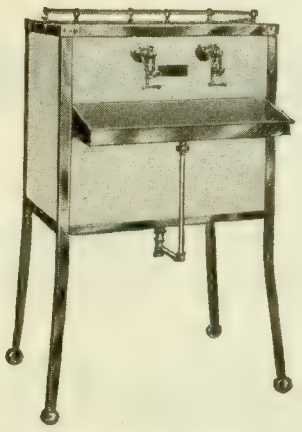


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As The Editor Sees It

INSULATED HOUSES

BY JOHN R. LIVEZEY

In previous articles I have gone into details, in a general way, on house insulation, and the benefits derived, and serious attention is being given to this important matter on account of increasing cost of fuel and a desire for a greater degree of comfort.

It cannot be questioned that a man or woman who sets out now to build or buy a house knows, far more than ever before, what they want and how to get it. It is therefore more than ever necessary that the architect, contractor and builder be thoroughly familiar with every detail of the best house insulation so that he can satisfy his clients and take full advantage of the economies effected by proper insulation such as smaller heating plant, elimination of lath, etc.

Nothing is more certain than that the well built house of the future will be adequately insulated and that the uninsulated one will soon be classed with the "undesirables." It is more to the advantage of the architect and builder to be up-to-date than behind the times.

Insulation is not a luxury; on the contrary it is very reasonable in cost and adequate insulation is well worth while, within the limits of every house that is worth planning and building well, no matter what the cost.

If heat were visible, we could watch it on a winter day, pouring out through the walls and rising through the roof and there would be no question in anyone's mind that such waste should be stopped.

Heat is invisible, but the loss can be accurately calculated from known factors based on test results. and it has been established that 55% of the total heat supplied by the furnace passes off thru the walls and roof of the average home, the other 45% being dissipated unavoidably in air change and from door and window surfaces. Of twenty tons of coal burned, the heat from eleven tons is lost in this way through the construction. Under such conditions, it is necessary that a much larger heating plant and considerably more fuel are required than would be needed if this 55% loss could be materially reduced.

The average heating plant is figured for a house of uninsulated construction from which, as said above, 55% of the heat is lost through the walls and roof, but an adequate thickness of corkboard on the walls and roof lessens that loss by about 60%—a net saving of about a third (60% of 55% equals 33%). Obviously, if less heat is lost, less is needed and it is perfectly safe and practical to install a smaller heating plant and guarantee results, and this is substantiated by many people who have built and properly insulated.

Pure corkboard has been proven the best commercial insulator for more than twenty-five years; it is granulated cork baked under pressure and the granules are cemented together with their own natural gum; it contains no foreign binder and comes from the moulds in sheets 12 inches wide and 32 inches and 36 inches long, of various thicknesses, suitable for the use it is to be put to, but for house or building insulation, experience and tests recommend for the wall 1½ inches and for roof or ceiling 2 inches. To use less, except where conditions may require a slight reduction, is to lose much of the benefit designed to afford the home-builder the maximum value for the lowest practical cost.

This material has structural strength and will stay permanently in place without cracking, buckling or settling.

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With an insulation like this, a house can be uniformly heated; no cold sides, no drafts and no marked difference between up and downstairs—the whole house is comfortable.

The corklined house stays warm over night; the insulation holds the heat. The heating of such a house is very rapid.

Corkboard is of cellular structure, and being non-absorbent, walls where it is used will be perfectly dry.

On the other hand, a cork-lined house will be much cooler, but not damp, in the summer time.

The use of corkboard in apartment house construction would increase the renting values in many ways—by insulating the roof or top floors, these apartments can be easily rented, being warm in winter and cool in summer.

By its use, flat roof construction can be used, eliminating loft space.

Partitions and floors can be insulated with it and they will be sound-proof; it can also be used to insulate the first floor apartments over hot boiler rooms and cellars, and thus remove this objection found in so many apartment houses and hotels.

From all the data and experience obtained by one who has been in close touch with insulation for all purposes for the last twenty-five years, the problem of house insulation is most interesting, and based on such experience, I do not hesitate to recommend corkboard insulation, when properly applied and of suitable thickness, as the best investment that can be added and which will show a good return every heating season.

FIRST TENTATIVE DRAFTS OF UNIFORM MECHANICS' LIEN ACT DISTRIBUTED FOR PURPOSE OF OBTAINING COMMENTS AND SUGGESTIONS

The committee of thirteen men appointed by Secretary of Commerce Herbert Hoover to draw up a mechanics' lien act to serve as a basis for more uniform state legislation on this subject, today mailed out copies of its first tentative draft to several hundred trade associations, labor organizations and individuals who have expressed an interest in the subject.

Existing mechanics' lien laws of the different states, as applied to building construction, aim to provide a procedure by which contractors, sub-contractors, materialmen, laborers, and others, if they are not paid promptly may obtain some extra protection beyond their usual right to bring personal action against the owner, contractor and subcontractor who may have employed them. Under these laws the property and improvements afford security for the debts of those who have contributed to the improvement. To perfect a lien on the property each claimant is required to file for public record a statement of the amount due him.

If an owner fails to make payments as required by his building contract the property may be sold and payments made from the proceeds. If the contractor defaults or goes into bankruptcy leaving obligations due workers, materialmen or subcontractors, they have a claim on the property. On projects carried to completion the total amount of liens is usually limited to the unpaid balance of the contract price of the work and where the improvement is not completed the total of liens is limited to the unpaid balance of the amount earned by the contractor for the work performed. If the claims are not satisfied by the owner a sale of the property may be compelled by court action.

This study was undertaken at the request of several national organizations interested in the construction industries, and the committee is composed of men representing the principal groups whose interests are affected by such laws, including whose interests are those of the owner.

The tentative draft contains few new departures, practically all of its provisions having been found workable in several jurisdictions. The aim of the committee has been to produce an act which will adequately protect the interests of the worker and others concerned in construction as well as the interests of the owner and those who finance building operations, and to distribute as equitably as possible among the groups the burden of securing such protection.

The tentative draft of the act is being distributed to individuals and to trade and professional bodies who will study it in detail and submit to the committee their comments and suggestions. The committee has requested that all comments be forwarded to its secretary before January 31, 1927. They will then be collated and carefully studied by the committee with a view to perfecting the act.

(Continued on page 737)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Christian Association Building, Northwest corner Thirty-sixth and Locust streets, Philadelphia. Architect, Thomas Martin and Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owner, Christian Association of University of Pennsylvania, on premises. Plans in progress.

Factory (alts.), Buttonwood and American street, Philadelphia. Architect, Eugene A. Stopper, 10 South Eighteenth Street, Philadelphia. Owner, Richard L. Binder, 497 N. Third street, Philadelphia. Brick, steel, 5 stories, 30x100 feet, carpentry and millwork. Architect taking bids.

Warehouse, rear of 325 Market Street, Philadelphia. Architect, Magaziner and Eberhard and Harris, 603 Chestnut Street, Philadelphia. Owner, Markovitz Bros., on premises. Architect taking bids due Nov. 20th.

Bridge, over Schuylkill River, Green Lane, Manayunk, Philadelphia. Owner, Commissioners of Montgomery Co., W. C. Irvin, Dept. of Public Works, S. H. Noyes, 216 City Hall, Philadelphia. Owner taking bids due Nov. 30th, 11 A. M.

Sewer Work, Philadelphia. Owner, Department of Public Work, Bureau of Engineering, 216 City Hall. Owner taking bids due Nov. 24th at noon. Certified check 5% A, Branch Sewers; B, Main Sewers, Mifflin Street and Eighteenth street; G Street and Luberne Street.

Grading, Philadelphia. Owner, Department of Public Works, Bureau of Highways, 232 City Hall. Grading, asphalt paving and repaving, bituminous block paving, redress granite block, paving certain alleys, country road improving. Sewer, Frankford, Longshore to Welsh Road. Certified check 5%. Owner taking bids due Nov. 23rd, noon.

Community Building, Fifth and Moore streets, Philadelphia. Architect, E. L. Rothschild, Bankers' Trust Building, Philadelphia. Owners, Assoc. Talmud Torahs, care of L. E. Levinthal, Bankers' Trust Building, Philadelphia. Architect selected. Plans in progress.

Residence (alts. to 1 store and 6 apartments), Nineteenth and Ontario streets, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Warren D. Neixner, 3100 North Twenty-second street, Philadelphia. Changing partitions, hot water heat, electric light, tile work, hardwood floors, painting and glazing, plumbing, tile work. Plans in progress. Owner will take bids.

Factory, Tioga and Almond streets, Philadelphia. Architects and engineers, John N. Gill Const. Co., City Center Building, Philadelphia. Owners, Laurel Soap Co., W. J. Bertolet, 103 Palmer street, Philadelphia. Brick, reinforced concrete, steel, 2 stories and basement, 250x80 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, ornamental iron work. Architects and engineers taking sub-bids due as soon as possible.

Museum (add.), Thirty-fourth and Spruce streets, Philadelphia. Architects, Stewardson & Page, 315 South Fifteenth street; Day & Klauder, Franklin Bank Building; Wilson, Eyre & McIlvaine, 1003 Spruce street, Philadelphia. Owners, University of Pennsylvania Trustees, Thirty-fourth and Spruce streets, Philadelphia. Brick, stone, steel. Ready for bids in a week.

First Floor (alts.), 1313 Walnut street, Philadelphia. Architect, H. Trumbauer, Land Title Building, Philadelphia. Owners, Bankers' Trust Co., on premises. Remodeling entire first floor for bank, tile and marble work, bank fixtures, screens, etc. A. Wilt & Son, 723 North Front street, Philadelphia, taking sub-bids.

Residence and Garage, Cliveden street and Park Line Drive, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owner, A. Sabloskey, care of Stanley Co., 1916 Race street, Philadelphia. Stone, concrete, steel, 2½ stories and basement, 87x32 feet, garage 37x25 feet, slate roof, oak, pine and cement floors, painting and glazing, metal weather strip (plumbing, heating, electric reserved), metal lath, bond, ornamental iron work, incinerator, flagstone, area grating, laundry chute, ornamental plaster. Architects taking bids due November 18th.

Office Building and Warehouse, South side Luzerne, East of Nicetown, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owners, Mack Paving Co., on premises. Brick and steel, 1 and 2 stories and basement, irregular (plumbing, heating, electric reserved), slag roof, cement floors, rolled steel sash, bond, ornamental iron work. Architect taking bids due November 19th.

Anti-toxin Barn, Second and Luzerne streets, Philadelphia. Architect, Philip H. Johnson, Widener Building, Philadelphia. Owners, City of Philadelphia, Bureau of Health, City Hall, Philadelphia. Brick, cinder concrete block, 1 story, 40x195 feet (plumbing, heating, electric separate bids), slate roof, cement floors, waterproofing and dampproofing, ornamental iron work. Certified check, 5 per cent. Owners taking bids due November 19th at noon.

New Roof and Siding on Railroad Siding, connecting Two Buildings, Fifth and Glenwood avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, S. L. Allen & Co., on premises. Structural steel, 1 story, 190x20 feet, gypsum roof. Architects taking bids due November 23rd before 11 A. M.

Offices (alts. and add.), Morris Building, 1411 Chestnut street, Philadelphia. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, E. B. Smith & Co., on premises. Bronze work, cabinet work, call bell system, dumb waiters, electric work, elevator, elevator doors, hardware, kalamein sash, lockers, mail chute, marble work, painting and glazing, plumbing, plastering, pneumatic tubes, reinforced concrete, structural steel, tile work, vault doors, slag roof, metal lath, rubber flooring, steel lockers. Architect taking bids due November 24th.

Contract No. 138, Equipment. Owners, Department of Public Property, City Hall. Owners taking bids due November 23rd at noon. Furnish manholes in Lowden street and Cumberland street. Deposit, $50, refunded. Certified check, 5 per cent. Bond.

Sub-stations Nos. 4 and 5, Louden street and Carlisle street, Philadelphia. Architect, private plans. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Brick, steel, cut stone, granite, 1 story and nish and erect two electric travel cranes and construction of underground conduit lines and basement, 89x73 feet, Cumberland and Park avenue, 85x65 feet, slag roof, cement floors, roof ventilators, dampproofing, architectural terra cotta, bond, marble work, rolled steel sash, bluestone, area gratings, limestone, steel partitions. Owners taking bids due November 23rd at noon.

Bridge, Green Lane, over Schuylkill River, Manayunk, Philadelphia. Owners, Department of Public Works, Bureau of Engineering, and Commissioners of Montgomery County, W. C. Irvin, 216 City Hall, Philadelphia. Certified check, 5 per cent. of bid made out to order of owners. Plans and specifications on file Room 746, City Hall, and Court House, Norristown. Owners taking bids due November 30th at 11 A. M.

Cigar and Candy Stand, Walnut and Sydenham streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Mutual Trust Building, care of architect. Architects taking bids on fittings due November 18th.

Residences and Garages, North side Sanger street West of Summerdale street, $137,500, Architect, private plans. Owner, Barry Gelsman, 1702 Conlyn street, Philadelphia. Brick, 2 stories, 14x28 feet, slag roof, pine and cement floors, hot water heat, electric light. Permit issued.

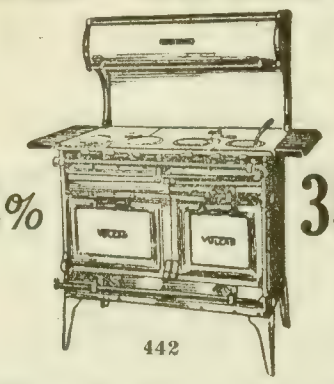
Residences and Garages, East side Daggett street, North of Callowhill, $127,500. Architect, private plans. Owners, Perna & De Rita, 401 Daggett street, Philadelphia. Brick, 2 stories, 16x30 feet, 10x11 feet, slag roof, hardwood, pine and cement floors, hot water heat, electric light. Permit issued.

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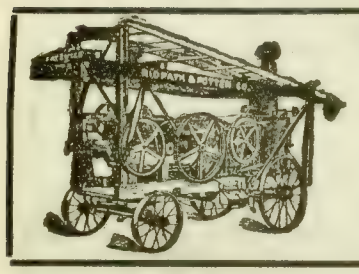
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Garage, 19 West Willow Grove avenue, Philadelphia, $2,700. Architect, Samuel D. Milnor, 4616 Frankford avenue, Philadelphia. Owners, Adams Brothers, 204 Broadway, Westville, N. J. Brick, slag roof, cement floors, electric light. Permit issued.

Residence (add.), 4857 C street, Philadelphia, $2,000. Architect, private plans. Owner, M. Rudolph, on premises. Brick, 10x16 feet. Permit issued.

Residences (2), Magee street, West of Oakley street, Philadelphia, $8,000 total. Architect, private plans. Owner, Fred Smith, 6715 Jackson street, Philadelphia. Brick, 2 stories, 16x39 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residence, 5726 Reach street, Philadelphia, $5,000. Architect, private plans. Owner, William Shoemaker, 5726 North Mascher street, Philadelphia. Brick, 2 story, 16x40 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residence, Island road and Ashwood road, Philadelphia, $4,000. Architect, private plans. Owner, Antonio Rizzo, 8140 Aramingo avenue, Philadelphia. Brick, 2 stories, 16x29 feet, 11x10 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Factory, South side Eastwick avenue, East of Eighty-fourth street, Philadelphia, $15,000. Architect, private plans. Owner, Joseph Funston, Washington Square Building, Philadelphia. Brick, 1 story, 84x73 feet, concrete work, electric work, steam heat. Permit issued.

Residences (2), Southeast Corner Verree road and Chandler street, $7,000 total. Architect, private plans. Owner, Edwin Davis, 7802 Veree road, Philadelphia. Frame, 2 stories, 16x46 feet, pine floors, electric light. Permit issued.

Shed, Northeast Corner Erie avenue and Sepviva street, Philadelphia, $3,500. Architect, private plans. Owners, Haines, Jones & Cadbury, 1136 Ridge avenue, Philadelphia. Frame, 1 story, 75x32 feet. Permit issued.

Residence, North side Hampton road, East of Germantown avenue, Philadelphia, $30,000. Architect, private plans. Owner, Judson M. Zane, Land Title Building, Philadelphia. Stone, 3 stories, 40x37 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Permit issued.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Club (add.), 1535 N. Bailey Street, Philadelphia, $2,000. Architect, private plans. Owner, Northwest Boys' Club, on premises. Brick, 1 story, 18x60 feet, carpentry and millwork, electric work. Contract awarded J. S. Creamer, 1739 N. Twenty-sixth Street, Philadelphia.

Manse, Chelten and Limekiln Pike, Philadelphia. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Covenant Presbyterian Church, Rev. S. W. Anschutz, Ogontz and Haines street. Stone, 2 stories, 51x26 feet, slate roof, oak and pine floors, hot water heat, electric light, tile work. Contract awarded Allen S. Goodwin, 1339 Haines street, Philadelphia.

Building (alts.), Southeast Corner Fifth and Lehigh avenue, Philadelphia, $7,000. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, H. Chervin, 1708 Ruscomb street, Philadelphia. General alterations, steam heat, electric light, tile work. Contract awarded to Alexander Laub, 812 West Wyoming avenue, Philadelphia.

Alterations, 310 South Quince street, Philadelphia. Architects, Mellor, Meigs & Howe, 205 South Juniper street, Philadelphia. Owners, Mask & Wig Club, on premises. Tile work, carpentry and mill work, plastering, metal lath, steel beams, electric work, alterations to heat. Contract awarded William H. Eddleman, 453 Green Lane, Philadelphia.

Theatre and Office Building, Southwest Corner Seventeenth and Market streets, Philadelphia. Architect, C. Howard Crane, Detroit, Mich. Owners, William Fox Film Corporation, 850 Tenth avenue, New York. Brick, cut stone, steel, 15 stories and basement, 248x176 feet, slag roof, cement floors, elevators, steam heat, electric light, metal lath, tile and marble and terrazzo work, rolled steel sash, bond, ornamental iron work, seating capacity 5100. Contract awarded Chanin Const Co.,

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Sub-station (alts.), 1125 Arch street, Philadelphia. Architect, S. A. Wagner, Twelfth and Market streets, Philadelphia. Owners, Philadelphia & Reading Railroad Co., Twelfth and Market streets, Philadelphia. Brick, concrete, cement floors, plumbing, painting and glazing, hollow metal doors, asphalt mastic waterproofing. Contract awarded F. W. Van Loon, Perry Building, Philadelphia.

Office and Press Room, Second and Glenwood avenue, Philadelphia, $28,000. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owners, Betzold Brothers, on premises. Brick, steel, concrete, 1 and 2 stories, irregular, slag on concrete, cement floors, rolled steel sash, hollow metal skylights. Contract awarded Knox Landers, 1132 Vine street, Philadelphia.

Residences (6), 360-70 Devereaux street, Philadelphia, $24,000. Architect, private plans. Owners, Joos & Wehmeyer, 800 Fanshaw street, Philadelphia. Brick, 2 stories, 16x28 feet, 9x13 feet, slag roof, pine floors, hot water heat, electric light. Contract awarded to E. K. Wehmeyer, 800 Fanshaw street, Philadelphia.

Residence and Store (add.), 117 West Chelten avenue, Philadelphia, $15,000. Architect, private plans. Owner, Alfred M. North, 9400 Germantown avenue, Philadelphia. Brick, 1 story add., 65x34 feet. Contract awarded to John R. Erbe, 2551 North Sixth street, Philadelphia.

Residence (add. and alts.), 936 North Forty-second street, Philadelphia, $4,000. Architect, private plans. Owner, Rose Marshall, 2323 South Marshall street, Philadelphia. Brick, 2 stories, 26x10 feet, general alterations. Contract awarded to J. Marshall, 2323 South Marshall street, Philadelphia.

Garage, 849 East Russell street, Philadelphia. Architect, private plans. Owners, Hopkinson and Haigh, 853 East Russell street, Philadelphia. Brick, 1 story, 15 feet 6 inches x 60 feet, slag roof, cement floors, electric work. Contract awarded to J. Y. Loux, Inc., Fifteenth and Hunting Park avenue, Philadelphia.

Store, 5421-23 North Fifth street, Philadelphia, $38,000. Architect, private plans. Owner, John J. Reifsnyder, 5505 North Fifth street, Philadelphia. Brick, 2 stories, 40x97 feet. Contract awarded to Louis Braeunig, Jr., 5126 North Fifth street, Philadelphia.

Dance Hall (alts.), 1714 North Broad street, Philadelphia, $3,000. Architect, private plans. Owners, Florence Realty Co., Jefferson Building, Philadelphia. General alterations. Contract awarded to Kober Const. Co., 34 South Seventeenth street, Philadelphia.

Store and Show Room (alts.), 1913 Walnut street, Philadelphia, $6,000. Architect, private plans. Owner, M. DeMay ,on premises. General alterations. Contract awarded to John Baizley Iron Works, 514 South Delaware avenue.

Office Building (alts.), 324 Walnut street, Philadelphia, $5,500. Owners, Standard Accident Insurance Company, 225 Walnut street, Philadelphia. General alterations, plastering, painting, stair work. Contract awarded to W. W. Anstine, Frankford avenue and Oxford Pike, Philadelphia.

Residences (2), 3218-20 Princeton avenue, Philadelphia, $5,500 each. Architect, private plans. Owners, Lotnickie & Przybylowicz, 2333 Allegheny avenue, Philadelphia. Brick, 2 stories, 15 feet 6 inches x 49 feet, slag roof, hardwood and pine floors, electric lighting. Contract awarded to Stefan Peitrykowski, 3416 Richmond street, Philadelphia.

Store and Residence (add.), 6776 Germantown avenue, Philadelphia, $3,000. Architect, private plans. Owner, N. E. Smith, Fortieth and Lancaster avenue, Philadelphia. Brick, 2 stories, 16x42 feet. Contract awarded to C. E. Lloyd, 6600 North Eighth street, Philadelphia.

Workshop and Storage House, 259 North Fifth street, Philadelphia, $7,500. Architect, private plans. Owner, George F. Werner, on premises. Brick, 3 stories, 41x27 feet, slag roof, electric work, concrete work. Contract awarded to Clayton Lofland, 231 North Water street, Philadelphia.

Garage, 1917 East Venango street, Philadelphia, $6,000. Architect, private plans. Owner, William Kyle, on premises. Brick, 1 story, 21x100 feet, slag roof, cement floors, electric work. Contract awarded to William S. Buckley, Willow Grove, Pa.

Fire Escape, Building No. 8, Girard and Corinthian avenues, Philadelphia, $5,000. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Girard College, on premises. Brick work, cut stone, steel, iron work, metal doors, painting, electric work, bronze work. Contract awarded to F. L. Hoover & Son, 1023 Cherry street, Philadelphia.

Store and Office (alts.), 6129-31 Woodland avenue, Philadelphia, $2,500. Architect, private plans. Owner, L. Zagerman, 2510 South Eighth street, Philadelphia. General alterations. Contract awarded to D. Rosenberg, 2510 South Eighth street, Philadelphia.

Residence (alts.), 6839-41 Woodland avenue, Philadelphia. Architect, private plans. Owners, St. Vincent's Hospital, Seventieth and Woodland avenue, Philadelphia. General alterations. Contract awarded to P. J. Lawler, Upper Darby, Pa.

Grading and Paving Roads and Walks, Bensalem and Strahle road, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Baptist Home, on premises. Contract awarded Martin Const. Co., Germantown avenue and Durham street, Philadelphia.

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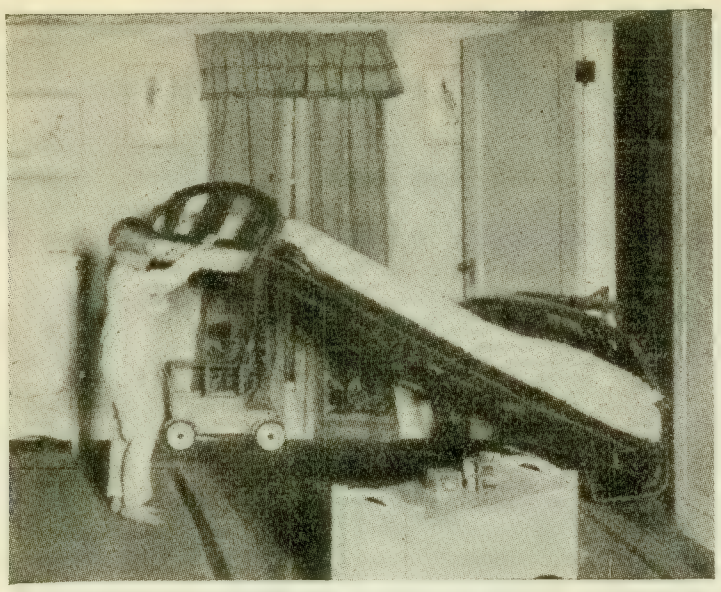
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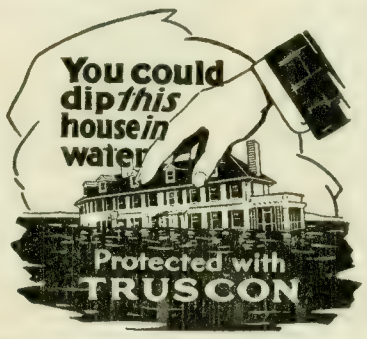
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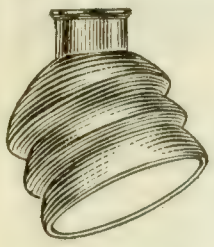
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Pennsylvania Construction News

Garage and Service Station, Stores (6) and Apartments, Garret Road and Windermere Road, Drexel Park, Pa. Architect, Wallace and Warner, Franklin Trust Building, Philadelphia. Owner, Thos. Conway, Jr., Corp., Drexel Park, Pa. Garage: Brick, reinforced concrete, 2 stories, 50x150 feet, slag roof, metal bulks, plate glass. Store and Apartments: Brick, 2 stories, 140x50 feet, slag roof tile work, vapor heat, electric light hardwood floors. Owners are building.

Semi-Detached Residences (2), South Highland Road, Springfield, Pa. Architect, C. G. Schweiker, K. A., 1209 Garfield Avenue, Manor Heights, Pa. Owner, I. W. Weaver, 17 Lownes Lane, Springfield, Pa. Frame stucco, cinder block, 2 stories, 18x27 feet, slag and mission tile roof, hardwood floors, hot water heat, electric light. Owner taking sub-bids.

Store (rear add.) 42 Public Square, Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Boston Candy Kitchen, J. K. Stelioles, on premises. Brick, 2 stories, 25x60 feet, slag roof, pine floors, electric work. Architect taking bids.

Building, Lancaster, Pa. Architect, Alfred Green, 29 W. 34th Street, New York City. Owner, General Cigar Company, Frederick St. and Lancaster Ave., Lancaster, Pa. Architect taking bids due Nov. 19th.

Church Building, Lincoln Highway and Church Street, Coatesville, Pa. Architect, Peter Getz, Victory Building, Philadelphia. Owner, St. Stanislaus Kostka's Church, Rev. Anthony Klijanowicz, Coatesville, Pa. Stone, brick, cut stone, one story and basement, 100x45 feet, asbestos shingle roof, (tower) copper roof, steam heat, (oil burner) electric light, rolled steel sash, wire, storm and moss glass, reinforced concrete, structural steel. Architect taking bids due Nov. 24th at noon.

Preventorium, Mt. Clare, Pa. Architect, Carl P. Berger, 1512 Walnut street, Philadelphia. Owners, Kensington Dispensary for Treatment of Tuberculosis, Sister Marie Roeck, Hancock and Susquehanna avenue, Philadelphia. Brick, frame, 3 stories. Plans in progress.

Amusement Hall, Plymouth, Pa. Architect, T. A. Foster, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Polish Alliance of America, care of architect. Steel, brick, 3 stories, 63x129 feet, built-up roof, hardwood floors, steam heat, electric light, tile work, iron stairs. Plans in progress.

Garage, Allentown, Pa. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owner, name withheld. Steel, stucco, wood block, 1 and 2 stories, 60x100 feet, composition roof, pine and concrete floors, hot air heat, electric light. Preliminary plans in progress.

Mears Building and Bank (alts.), Scranton, Pa. Architects, E. H. Davis and George M. D. Lewis, Board of Trade Building, Scranton, Pa. Owners, J. A. Mears Estate, Mears Building, Scranton, Pa. General alterations, elevators. Preliminary plans in progress.

Grade School, No. 8, Scranton, Pa. Architect, A. P. Coon, Union Bank Building, Scranton, Pa. Owners, School Board of Scranton, J. Hughes, secretary, 425 Washington street, Scranton, Pa. Fireproof, 2 stories, 64x75 feet, built-up roof, maple floors, safety treads, roof ventilators. bond, skylights, metal lath (heating, plumbing, electric separate). Plans about completed.

School, Shartlesville, Pa. Architect, H. Raymond Heckman, 702 Baer Building, Reading, Pa. Owners, Upper Bern School District, John S. Berger, secretary, Shartlesville, Pa. Brick, 1 story and basement, 58x83 feet, slag roof, composition floors, warm air heat, roof ventilators, metal weather strip, metal lath, bond (heating, plumbing and electric separate). Plans in progress.

Garage, Olyphant, Pa. Architect, Theodore Preitz, 313 Lackawanna avenue, Scranton, Pa. Owner, J. Weiss, 119 River street, Olyphant, Pa. Brick, hollow tile, 1 story, 80x120 feet, slag roof, concrete floors, electric light, steel sash. Plans in progress.

School Building, Cheyney, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Cheyney Training School, Cheyney, Pa. Brick, 2 stories, slag roof, pine floors. Plans in progress. Will be ready for bids in three weeks.

High School, Kingston, Pa. Architects, Mack & Sahm, Coal Exchange Building, Wilkes-Barre, Pa. Owners, Kingston School Board, W. H. Evans, secretary, Kingston, Pa. Fireproof, 2 stories and basement, 276x180 feet, composition roof, composition and maple floors (heating, plumbing and electric separate, hollow tile, safety treads, roof veneilators. Will take bids in two weeks.

Jewish Convalescent Home, Welsh road above Willow Grove, Pa., $250,000. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owners, Jewish Convalescent Home, on premises. Brick, steel, concrete, 3 stories and basement, slag roof, cement floors, electric light, kitchen equipment. Plans in progress. Architect will take bids in spring, 1927.

Grade School No. 27, Scranton, Pa. Architect, A. P. Coon, Union Bank Building, Scranton, Pa. Owners, School Board of Scranton, J. Hughes, secretary, 425 Washington street, Scranton, Pa. Semi-fireproof, 2 stories, 8 rooms, 60x75 feet, built-up roof, maple floors, hollow tile, safety treads, roof ventilators, bond, skylights, metal lath (heating, plumbing and electric reserved). Owners will be ready for bids in one week.

Residence, Mountain Top, Pa. Architect, Edward Rutledge, Union Bank Building, Scranton, Pa. Owners, St. Catharine's Parish, Rev. Charles Murray, Mountain Top, Pa. Frame, 1½ stories, 34x46 feet, asbestos shingle roof, hardwood floors, vapor heat, electric light, tile work. Owners will be ready for bids in ten days.

Garage, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owners, R. Mainker & Co., rear 246 North Sixth street, Allentown, Pa. Concrete, brick, steel, 2 stories, 60x120 feet, slag roof, concrete floors, iron stairs, floor hardener, steel sash, electric light, seam heat, ramp. Owners will build.

Residences (8), Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, Samuel Rappoport, Allentown, Pa. Brick, 2½ stories, 30x46 feet, asbestos shingle roof, pine floors, hot water heat, electric light, tile work. Owner will build.

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Theatre Building and Clark Building, Seventh and Liberty avenue, Pittsburgh, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, The Stanley & Roland Clark Corporation, Philadelphia and Pittsburgh, Pa. Reinforced concrete, brick, granite, steel, 1 story and basement, balcony and promenade 180x143 feet, 23 stories and basement, 180x85 feet, composition roof, cement, maple and pine floors, hollow tile, plumbing, roof ventilators, integral waterproofing, architectural terra cotta, ornamental iron work, iron stairs, bond, tin clad and kalamein doors, galvanized iron skylights, hollow metal sash, tile, marble and terrazzo work, metal lath, steam heat, electri clight, plastic waterproofing, art marble, area gratings, bronze work, membrane waterproofing. W. T. Grange & Co., Pittsburgh, Pa., will supervise construction. Architects taking sub-bids.

Manufacturing Building (add.), Hamilton street, Doylestown, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Derk Manufacturing Co., Doylestown, Pa. Brick, reinforced concrete, 1 story and basement, 126x152 feet, slag roof, cement and maple floors, hollow tile, plumbing, rolled steel sash and skylights, tin-clad and hollow metal doors, bond, ornamental iron work, composition floors, rolled steel shutters, metal partitins, caulking. Architects taking bids due November 18th before 11 A. M.

Farm House and Cottage (alts. and add.) and Garage, Devon, Pa. Architect, C. A. Ziegler, Drexel Building, Philadelphia. Owner, T. H. Dougherty, on premises. Stone, frame, 2½ stories and basement, 24x28 feet, garage, 21x27 feet, shingle roof, oak, pine and cement floors (heating reserved), electric light. Architect taking bids due November 18th.

Stores and Apartments, Lansdowne, Pa. Architect, Clarence Brazier, Chester, Pa. Owner, Dr. W. L. Rhoads, Lansdowne, Pa. Brick, cast stone, steel, 2 stories and basement, 80x100 feet, slag roof, oak, pine and cement floors, steam heat, electric light, tile work, ornamental iron work. Architect taking bids due November 22nd.

Factory (add.), Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owner, J. K. Stelioles, care of architect. Slow burning construction, 3 stories, 46x22 feet, slag roof, pine floors, roof ventilators, fire doors, steel sash, electric light. Architect taking bids due as soon as possible.

Silk Mill, Georgetown Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Georgetown Silk Co., Georgetown, Pa. Brick, steel, 1 story, 155x117 fet, slag roof, concrete floors, roof ventilators, waterproofing, fire doors, steel sash, electric work. Architects taking bids.

Church, East Stroudsburg, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Associate architects, Lacey & Rinker, East Stroudsburg, Pa. Owners, Grace Lutheran Church, Rev. J. S. Kistler, 29 Lackawanna avenue, East Stroudsburg, Pa. Brick, 1 story, 98x59 feet. Owners taking bids due November 30th.

Residence, Canadensis, Pa. Architect, Henry L. Reinhold, Jr., 1513 Walnut street, Philadelphia. Owner, name withheld. Preliminary plans in progress.

Residence and Garage, Drexel Park, Pa. Architects, Heacock & Hoakinson, 1211 Chestnut street, Philadelphia. Owner, Charles Svoboda, Schaeff Building, Philadelphia. Stone, half timber, brick, 2½ stories, 30x45 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Plans about completed. Architects taking bids.

Hospital Buildings (alts. and add.), Wernersville, Pa. Architect, George H. Boyer, Lebanon, Pa. Owners, Wernersville State Hospital, Board of Trustees, S. S. Hill. Wernersville, Penna. Bond, reinforced concrete work, waterproofing, brick work, caulking, cut stone, carpentry and mill work, iron work, hardware, fire escapes, Ironite waterproofing, hollow metal doors, automatic rolling curtain, asbestos curtain, sheet metal work, plastering, metal lath, painting and glazing. Architect taking bids due December 2nd, 11 A. M.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highwayh, Harrisburg, Pa. Lowest bidders on work received November 5th.

Huntingdon County, A-2845-2828A, Carbon Township, Broad Top City Borough, 7,931 feet. One course reinforced concrete. Leon Swartz, Spangler, Pa., $61,980.79.

York County, R-441, A-4338, Manheim Township, 15,747 feet. One course reinforced concrete. Paul R. Hostetter Co., Inc., York, Pa., $128,537.

Lehigh County, R-487, A-4373, Salisbury Township, 10,159 feet. One course reinforced concrete. Sherman & Rhodes, Weissport, Pa., $77,284.30.

Greene County, R-112, S-4, A-4238, Carmichaels Borough, Cumberland Township, 5,407 feet. One course reinforced concrete. E. E. Morris, Waynesburg, Pa., $53,810.90.

Butler County, R-246, A4339, Zelienople Borough, Jackson Township, 13,174 feet. One course reinforced concrete. O. B. Bracht, Titusville, Pa., $99,984.60.

Allegheny County, R-70, S-RB, A-4358, Harmar Township, 13,716 feet. One course reinforced concrete. McCrady Bros. Co., Braddock, Pa., $222,553.04.

Pennsylvania Contracts Awarded

School, Lansdale, Pa. Architect, Watson K. Philips, 213 South Fifth street, Philadelphia. Owner, Lansdale School Board, Lansdale, Pa. Brick, 2 stories, 173x78 feet, slag roof, electric light, heating and ventilating, apparatus, lockers, concrete work, cement and pine floors, hollow tile, roof ventilators, celotex, cinder concrete block, area grating, bond, floor hardener, iron stairs, metal lath, cut stone. Contract awarded Stoneback and Nace, Quakertown, Pa., $92,600.

Theatre, Pottsville, Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Chamberlain Amusement Co., Pottsville, Pa. Brick, steel, reinforced concrete, hollow tile, steam heat, electric light. Contract awarded Stofflett & Tillotson, Wesley Building, Philadelphia.

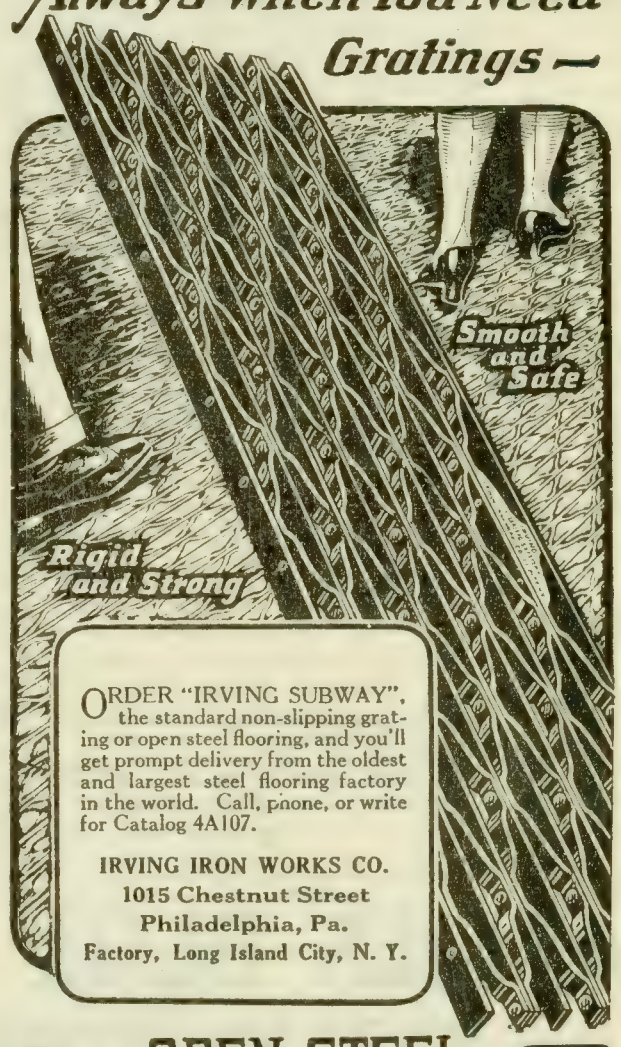
Residence, Wynnewood, Pa. Architects, Heacock & Hokanson 1211 Chestnut street, Philadelphia. Owner, George W. Shissler, 5951 Overbrook avenue, Philadelphia. Stone, 2½ stories and basement, 107x77 feet, slate roof, oak and pine floors, electric light, tile work, plumbing, flagstone. Contract awarded E. H. Keefer & Son, 1321 Rodman street, Philadelphia, who are taking sub-bids due November 19th.

Residence, Penarch and Lodges Lane, Cynwyd, Pa., $30,000. Architect, private plans.. Owner, C. B. Suttie, 1007 South Forty-sixth street, Philadelphia. Stone, 3 stories, hardwood floors, electric light, hot water heat, tile work. Contract awarded to Carson Brothers, 7100 McCallum street, Philadelphia.

Residences (20), Abbotsford road and Schuyler street, Philadelphia. Architect, private plans. Owner, name withheld. Brick, stone, 2½ stories, slag roof ,hardwood floors, hot water heat, electric light, tile work. Contract awarded J. G. Patterson, 2114 Lombard street, Philadelphia, who is taking sub-bids due as soon as possible.

Office and Apartment (add. and alts.), Wilkes-Barre, Pa. Architect, T. A. Atherton, Coal Exchange Building, Wilkes-Barre, Pa. Owners, J. H. Brook & Co., 11 South Franklin street, Wilkes-Barre, Pa. Stone, 3 stories, 10x40 feet, slag roof, cork and linoleum floors, plate glass, tile work, heating extension, elec-

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tric light. Contract awarded to Shepherd Const. Co., Miners' Bank Building, Wilkes-Barre, Pa.

School, Exeter, Pa. Architect, J. A. McGlynn, Simon Long Building, Wilkes-Barre, Pa. Owners, Exeter Borough School Board, J. Trusko, secretary, Exeter, Pa. Fireproof, 2 stories and basement, 45x132 feet, slag roof, pine floors, roof ventilators, hollow tile, iron stairs, bond, fire doors, metal lath. Contract awarded to Anthony Grosek, Plains, Pa.

Store and Apartment, Fourth and Gordon streets, Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Alleitown, Pa. Owner, Allen Heil, on premises. Brick, 3 stories, 16x65 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Frank Sycher, R. F. D. No. 2, Allentown, Pa.

Residences (10), Allentown, Pa. Architect, E. R. Bitting, 1104 Hamilton street, Allentown, Pa. Owner, H. Weidenhammer, 504 Hamilton street, Allentown, Pa. Brick, 2 stories, 14x56 feet, slag roof, pine floors, hot water heat, electric light, tile work. Contract awarded to Edward Heydt, 729 South Hall street, Allentown, Pa.

Road Grading, Upper Darby, Pa. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Upper Darby School Board, J. Milton Lutz, Upper Darby, Pa. Stonehurst School, Bowden Const. Co., 1608 Summer street, Philadelphia. Drexel Hill School, Chris Barske, Lansdowne, Pa. Bywood and Highland Park School, Martin Cont. Co., Germantown avenue and Durham street, Philadelphia. Contracts all awarded to above contractors.

Pennsylvania State Highway Work. Bucks and Lehigh Counties, R-153, Richland, Springfield, Upper Saucon Townships, Coopersburg Borough. One course reinforced concrete. Contract awarded to Cox & John, Malvern, Pa., $297,904.98.

Schuylkill County, R-464, A-3925-3926, Section 1, Gilberton and Shenandoah Boroughs, West Mahanoy Township. Bituminous surface course on broken stone base. Contract awarded to Swanger & White, Lebanon, Pa., $86,792.

Mifflin County, R-4262, Derry Township. Bituminous surface treated. Contract awarded to J. M. Hutchinson, Altoona, Pa., $17,060.90.

Chester County, A-4117, East Brandywine Township. One course reinforced concrete. Contract awarded to Dunleavy Brothers Co., Coatesville, Pa., $28,131.55.

Somerset County, R-52, A-3275, 3726, Jenner and Conemaugh Townships. One course reinforced concrete. Contract awarded to Michael Barber, Binghamton, N. Y., $91,632.12.

York County, A-2003-B, Codorus Township. One course reinforced concrete. Contract awarded to York Eng. & Const. Co., York, Pa., $122,328.70.

New Jersey Construction News

Concrete Curbs and Sidewalks, Wildwood, N. J. Civil Engineer, H. E. Weir, Wildwood, N. J. Owner, City Council of Wildwood, C. A. Hall, Jr. Plans completed. Owner will soon take bids.

Sewer, Eriton, Delaware Township, N. J. Engineer, Remington and Vosbury, 509 Cooper St., Camden, N. J. Owner, Township Commission, Delaware Township, M. Havers, Clerk, Ettensburg, N. J. Approximately 1800 lineal feet, 5 and 8 inch T. C. pipe sewer, manholes appurtenent work, bond. Certified check 5%. Deposit $10.00. Refunded $5.00 if returned before Dec. 5th. Owner taking bids due Nov. 22nd, 8 P. M.

Publishing Building, Bridgeton, N. J. Architect, Thomas Edward Ash, 1012 Walnut street, Philadelphia. Owners, Bridgeton Evening News, Bridgeton, N. J. Brick, steel. Plans in progress. Too early for details.

Storage and Refrigeration Building, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic Delicatessen Co., 1328 Atlantic avenue, Atlantic City, N. J. Fireproof, 2 stories and basement, slag roof, concrete floors, elevators, waterproofing and dampproofing, floor hardener, fire doors, steel sash, steam heat, electric light. Revised plans in progress.

Residence and Garage, Hightstown, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mayor Thompson, Hightstown, N. J. Stone, 2½ stories, 50x108 feet, 40x25 feet, Stonefield slate roof, oak and slate roofs, vapor heat, electric light, tile and marble, ornamental plaster, ornamental iron. Revised plans in progress.

Stores and Apartments (alts. and add.), Wyoming and Ventnor avenues, Ventnor, N. J. Architect, D. W. B. Haining, Guarantee Trust Building, Atlantic City, N. J. Owners, Louis Ginsburg & Brothers, 114 North Rhode Island avenue, Atlantic City, N. J. Brick, structural steel, 2 stories, 24x45 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble, plate glass. Owners taking sub-bids.

Residence, Ventnor, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, Harry Yarmov, 117 Oriental avenue, Atlantic City, N. J. Brick, cinder concrete block, stucco, 3 stories, 50x125 feet, tile roof, hardwood floors, hot water heat, electric light, tile and marble. Owner will build.

Cottage, Ventnor, N. J. Architect, Bertram Ireland, Guarantee Trust Building, Atlantic City, N. J. Owner, Alexander Fridrick, 1502 Mt. Ephraim avenue, Camden, N. J. Concrete block, stucco, 2 stories, 28x40 feet, tile roof, hardwood floors, hot water heat, electric light. Owner taking sub-bids.

Bungalows (3), Columbia Park, N. J. Architect, Robert W. Pollock, 8 South Hicks street, Philadelphia. Owner, Charles S. Bannett, 1633 South Fifty-ninth street, Philadelphia. Stucco, brick, frame, 2 stories, 40x22 feet, irregular, Spanish concrete tile roof, composition floors, plumbing, plastering, mill work, excavating, glass, painting, hot water heat, electric light. Owner taking sub-bids.

Convention Hall, Atlantic City, N. J. Architects, Lockwood, Greene & Co., Inc., 1 Pershing Square, New York. Owners, City of Atlantic County, Harry T. Headley, City Hall, Atlantic City, N. J. Engineer, A. H. Nelson, Atlantic City, N. J. Reinforced concrete, brick, cast stone, steel, 4 stories and basement, cement, pine and oak floors, promenade tile and composition roof, hollow tile, roof ventilators, shoring, membrane waterproofing, Parlock dampproofing, metal lath, tile, marble and terrazzo, rolled steel skylights and doors, bond, iron stairs, ornamental iron, limestone, granite, steel stack, area gratings, bronze, imitation travertine, bronze frames and sash, acoustical treatment (plumbing, heating, electric separate). Owners taking revised bids due December 2nd.

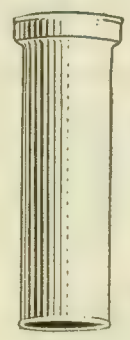
Ventnor Pier and Auditorium Addition, Ventnor, N. J. Architect, S. G. Dobbins, Segal Building, Atlantic City, N. J. Owners, City of Ventnor, Ventnor City, N. J. Frame, stucco, 1 story, 76x100 feet, 200x100 feet, tile roof, hardwood floors, metal partitions, electric work, tile work. Owners taking bids due November 22nd.

Borough Hall (alts. and add.), Westville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Borough Council, Westville, Borough Hall, Westville, N. J. Low bidders: J. D. Lawrence, Westville, $3,729; F. C. Slacum, Westmont, N. J., $3,900. Heating, W. J. Bond, Gloucester, N. J., $391.

Municipal Building, Southwest Corner Maple and Main streets, Maple Shade, N. J. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owners, Chester Township, Maple Shade, N. J. Low bidders: H. B. Miller, Edgewater Park, N. J Plumbing, Roland McMahon, Woodbury, N. J. Electric, Charles Leupold, Camden, N. J. Heating, H. Knecht, West Collingswood, N. J.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Construction of Ocean City-Somers Point road in Cape May County. Excavation, borrow, double line reinforced concrete pavement, gravel shoulders Deposit, $10. Certified check, 10 per cent. Owners taking bids due November 22nd at noon.

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New Jersey Contracts Awarded

Warehouse, Atlantic avenue, Atlantic City, N. J. Architect, D. A. Rosenstein, Humphry Building, Atlantic City, N. J. Owners, Custer & Kallas, Mt. Vernon and Atlantic avenues, Atlantic City, N. J. Fireproof (semi), 3 stories, 85x30 feet, slag roof, concrete and pine floors, electric lighting. Contract awarded to Pedrick & Son, 1415 Atlantic avenue, Atlantic City.

Stores (19), Apartments (22), West Atlantic City, N. J. Architect, A. L. Brooks, Humphry Building, Atlantic City, N. J. Owner, B. R. Fox, 1102 Atlantic avenue, Atlantic City, N. J. Hollow tile, frame, stucco, 2 stories, 550x100 feet, slag roof, hardwood floors, hot water heat, electric light, tile and marble, plate glass, metal skylights. Contract awarded to Wilbert Beaumont, 1 South Tennessee avenue, Atlantic City, N. J.

Parochial School, Pleasantville, N. J. Architect, A. F. Ainodio, Segal Building, Atlantic City, N. J. Owners, St. Peter's Roman Catholic Church, Rev. Dr. F. J. McCallion, Pleasantville, N. J. Brick, 2 stories, 60x100 feet, hardwood and composition floors, steam heat, electric light. Plans in progress. Contract awarded to Walter Meaghers, Pleasantville, N. J.

Residence (alts. and add.), Island Heights, N. J., $4,000. Architect, J. Fletcher Street, 1120 Locust street, Philadelphia. Owner, E. Swift Newton, Island Heights, N. J. General alterations. Contract awarded Thomas H. Wallace, Island Heights, N. J.

Pipe Shed, Camden, N. J. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owners, Keystone Supply Mfg. Co., 927 North Ninth street, Philadelphia. Corrugated iron, steel, 1 story and basement, 96x100 feet (plumbing, heating, electric reserved), slag roof, cement floors, mill work, concrete work, hardware, metal weather strip. Contract awarded F. M. Harris Co., 1520 Parrish street, Philadelphia.

Highway Work, New Jersey, $306,047.55. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Routes 2, 3 and 6, Delaware River Bridge approaches, Camden County. Contract awarded to Union Paving Co., Thirtieth and Locust streets, Philadelphia.

Miscellaneous Construction News

Municipal Office Building, Holliday and Lexington and Guilford, Baltimore, Md. Architect, William H. Emory, 18 East Lexington avenue, Baltimore, Md. Owners, Mayor and City Council, Baltimore, Md. Low bidders: J. Henry Miller, Inc., Baltimore, Md., $1,498,000; M. A. Long, Baltimore, Md., $1,521,465.

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Miscellaneous Contracts Awarded

Mill, Greensboro, N. C. Architect, private plans. Owners, Carolina Silk Products Corp., Greensboro, N. C. Brick, steel, 2 stories and basement, 100x200 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash and sprinkler system. Contract awarded William F. Lotz, Frankford avenue and Oxford street, Philadelphia, who are taking subbids.

Proposal

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 27, 1926. Sealed Proposals will be opened in this office at 3 P. M., November 23, 1926, for the construction of a brick-faced, stone-trimmed Post Office Building of approximately 6,850 square feet ground area at Montclair, N. J. Drawings and specifications may be obtained from the Custodian of the site at Montclair, N. J., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

(Continued from page 728)

The committee believes that a wide and thorough study will aid in producing an act which will be fair and just to all and which can be recommended to each state legislature for consideration.

The committee also believes that uniformity in this field would eliminate much confusion and expense which those doing business in more than one state experience on account of the wide divergencies in the present laws.

The committee's membership is as follows:

F. Highland Burns, Baltimore, Md., Pres., Maryland Casualty Company.

William F. Chew, Baltimore, Md., Ex-Pres., National Association of Builders' Exchanges.

H. E. Essley, New York, N. Y., Associated General Contractors.

George F. Hedrick, Lafayette, Ind., Vice-Pres., Building Trades' Department, American Federation of Labor.

Charles V. Imlay, Washington, D. C., National Conference of Commissioners on Uniform State Laws.

C. Clinton James, Washington, D. C., Pres., U. S. League of Local Building and Loan Associations.

Stewart A. Jellett, Philadelphia, Pa., Ex-Pres., Heating and Piping Contractors' National Association.

William B. King, Washington, D. C., Counsel, National Association of Builders' Exchanges.

Victor Mindeleff, Washington, D. C., American Institute of Architects.

Charles H. Paul, Dayton, O., American Engineering Counsel.

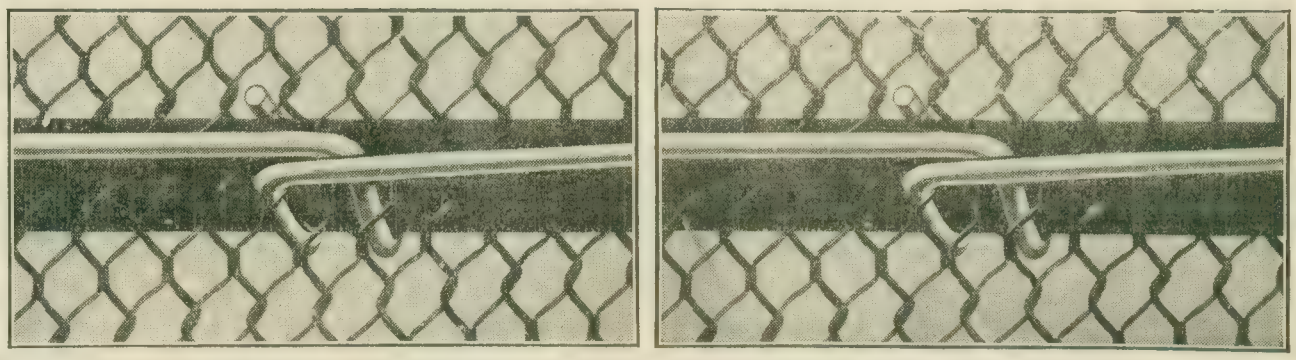
W. D. Rossiter, Cleveland, O., Ex-President, National Builders' Supply Association.

E. W. Shepard, New York, N. Y., National Association of Credit Men.

Frank Day Smith, Detroit, Mich., National Retail Lumber Dealers' Association.

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PATENTED—AUGUST 17, 1925—FEBRUARY 16, 1926
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GENERAL INSURANCE | SMITH-AUSTERMUHL CO. | SURETY BONDS
5th and Market Streets, Camden, N. J.
BELL PHONE, CAMDEN 3210 KEYSTONE, CAMDEN 3147

BUILDING PERMITS

Permits were granted during September for the construction or alteration of 4,355 buildings at an estimated cost of $17,003,731, according to reports received at the Department of Labor and Industry from 39 Pennsylvania cities and boroughs.

Comparable data for September, 1925, are available for 20 cities. These show that the volume of construction for September, 1925, was $19,808,015, and for September, 1926, it was $15,450,368, or a decrease for September, 1926, of 28 per cent. Sixty-two per cent. of this $4,357,000 decrease of building volume in the total for 20 cities was due to the loss reported for the city of Pittsburgh which, from a total of $4,385,132 in September, 1925, dropped to $1,843,936 in September, 1926, a reduction of $2,680,000, or more than 145 per cent. Other cities that show greatly reduced building operations are Allentown, Erie, Harrisburg, Lancaster, New Castle, Reading, and Uniontown. Philadelphia reported a slight gain for September over last year and in view of the tremendous reductions in Pittsburgh and other larger cities of the State the September report for Philadelphia is remarkable. Of the 12 cities that show increased building over September, 1925, Altoona, Bethlehem, Bradford, and Meadville show the largest percentage gains.

Building projects undertaken in 20 cities for the first 9 months of 1926 are 15,101 less in number and $49,293,898 less in value than for the corresponding months in 1925. This drop in building construction of 22 per cent. was scattered generally throughout the State. But four cities, Allentown, Bradford, Wilkes-Barre, and Williamsport, can show that the total value of permits issued during 1926, exceed the volume of construction for the corresponding 9 months of 1925, and even the gains for these cities are small.

ESTIMATED VALUE OF BUILDINGPERMITS ISSUED IN CITIES AND BOROUGHS IN PENNSYLVANIA DURING THE MONTH OF SEPTEMBER

City or Borough	1926 Number of Buildings	1926 Estimated Cost	1925 Number of Buildings	1925 Estimated Cost
Allentown	135	$ 373,550	138	$ 986,325
Altoona	172	237,039	138	157,953
Ambridge Borough*	25	99,425	..	..
Berwick Borough*	9	94,860	..	..
Bethlehem	115	498,285	60	248,160
Bradford	41	50,249	18	14,475
Bristol Borough*	9	10,000	..	..
Carlisle Borough*	23	86,295	..	..
Carrick Borough*	32	193,900	..	..
Clairton*	39	60,860	..	..
Coatesville*	17	27,100	..	..
Donora Borough*	3	9,200	..	..
Duquesne*	75	76,791	..	..
Easton	37	196,020	30	144,300
Erie	191	609,892	154	1,260,755
Harrisburg	99	319,150	92	407,500
Hazleton*	32	137,657	..	..
Johnstown*	91	101,000	..	..
Lancaster	45	127,240	71	509,900
McKeesport*	..	..	96	349,175
McKees Rocks Borough*	3	6,300	..	..
Meadville	13	65,950	4	14,000
Monessen*	8	31,350	..	..
Monongahela*	4	5,100	..	..
New Castle	70	122,765	96	290,630
Oil City	51	73,515	64	51,590
Philadelphia	1,563	9,597,360	1,736	9,592,390
Pittsburgh	632	1,843,936	749	4,523,937
Pottsville*	32	141,300	..	..
Reading	221	306,025	230	595,200
Scranton	140	257,091	161	252,049
Shamokin Borough*	40	34,435	..	..
Sunbury*	12	75,865	..	..
Uniontown	17	36,070	19	85,000
Warren Borough	13	20,025	7	13,200
Washington*	19	22,850	..	..
Wilkes-Barre	139	388,545	143	382,598
Wilkinsburg*	25	339,075	..	..
Williamsport	62	102,443	76	86,736
York	112	225,218	82	191,317
Total	4,366	$17,003,731	4,164	$20,157,190
Comparative Total	3,868	$15,450,368	4,068	$19,808,015

*Not included in comparative totals.

Construction costs decreased slightly during October, giving emphasis to a gradual downward tendency they have been observing during the past three years. The decrease last month was due to a slight lowering of the average of wages in the building trades and to a decline in the average of prices paid by contractors for building materials, according to statistics compiled by the Associated General Contractors of America.

Since May, 1923, construction costs have been moving slowly but consistently toward lower levels. Mainly this has been the result of a very apparent drop in the prices of the principal building materials. The effect of these reduced prices upon the ultimate costs of construction has been somewhat offset by the tendency of wages to hold to levels high above those they occupied at the beginning of 1923.

A study of the changes in the average of wages since May, 1923, shows 10 increases and 4 decreases, with a net increase of 12 points from 213 to the present figure of 225 on a scale which has the 1913 average as its basis for 100. A study of the monthly changes in the average of prices paid for building materials covering the same period shows 8 increases and 18 decreases, with a net drop of 28 points from 203 to the present mark of 175.

The average of construction costs in the principal building centers of the United States now rests at index number 195, 10 decreases since May, 1923, having offset 8 increases during that period to bring the figure down 7 points within three and one half years.

Ceresit Waterproofing Corporation, 512-14 South Canal Street, Chicago, announce that they are represented in the Philadelphia territory by the Philadelphia Building Materials Co., John F. Dakin, 1209-11 North Taney Street.

Ceresit Waterproofing, Dampproofing and Protective Products are carried in Philadelphia stock, insuring immediate delivery.

ESTIMATED VALUE OF BUILDINGPERMITS ISSUED IN PENNSYLVANIA, JANUARY TO SEPTEMBER, INCLUSIVE

City or Borough	January to September, inclusive 1926		January to September, inclusive 1925	
	Number of Buildings	Estimated Cost	Number of Buildings	Estimated Cost
Allentown	1,448	$ 5,695,450	1,319	$ 5,513,885
Altoona	1,371	2,493,764	1,493	2,552,247
Bethlehem	660	1,925,205	453	3,202,800
Bradford	291	619,803	322	579,810
Easton	321	1,955,035	317	2,137,746
Erie	1,666	4,356,467	1,822	7,343,087
Harrisburg	914	3,323,660	868	3,870,196
Lancaster	584	1,744,532	677	3,349,997
Meadville	116	755,841	124	776,370
New Castle	658	1,952,020	941	1,967,035
Oil City	378	406,025	574	1,080,263
Philadelphia	15,745	102,417,540	19,175	136,321,345
Pittsburgh	6,163*	29,950,402	6,692*	34,378,419
Reading	2,088	5,112,950	2,220	5,554,394
Scranton	1,200	4,385,132	1,402	5,659,361
Uniontown	87	381,280	155	1,304,136
Warren Borough	124	650,592	142	689,133
Wilkes-Barre	1,186	3,419,741	1,199	3,314,498
Williamsport	685	2,002,087	772	1,910,821
York	884	1,298,600	1,003	2,634,481
Total	36,569	$174,846,126	41,670	$224,140,024

*Number of Permits—Buildings not Given.

NEW BUILDINGS, ADDITIONS, ALTERATIONS AND REPAIRS IN PENNSYLVANIA FOR THE MONTH OF SEPTEMBER

City or Borough	1926				1925			
	New Buildings		Additions, Alterations, Repairs, etc.		New Buildings		Additions, Alterations, Repairs, etc.	
	Number of Buildings	Estimated Cost	Number of Buildings	Estimated Cost	Number of Buildings	Estimated Cost	Number of Buildings	Estimated Cost
Allentown	104	$ 339,950	31	$ 33,600	110	$ 947,425	28	$ 38,900
Altoona	85	208,799	87	28,240	61	119,834	77	38,118
Bethlehem	95	487,380	20	10,905	43	209,700	17	38,460
Bradford	23	38,074	18	12,175	11	12,025	7	2,450
Easton	26	139,270	11	56,750	14	39,800	16	104,500
Erie	137	576,437	54	33,455	102	1,181,700	52	79,055
Harrisburg	86	286,000	13	33,150	75	378,850	17	28,650
Lancaster	23	113,830	22	13,410	40	489,450	31	20,450
Meadville	10	63,900	3	2,050	3	10,000	1	4,000
New Castle	55	110,020	15	12,745	69	272,500	27	18,130
Oil City	21	66,075	30	7,440	23	34,150	41	17,440
Philadelphia	872	8,627,455	691	969,905	920	8,332,460	816	1,259,930
Pittsburgh	420*	1,699,655	212*	144,281	39*	4,315,397	210*	208,540
Reading	61	201,450	160	104,575	88	525,550	142	69,650
Uniontown	16	16,070	1	20,000	19	85,000	..	..
Warren Borough	3	13,500	10	6,525	2	9,000	5	4,200
Wilkes-Barre	52	345,489	87	43,056	67	312,847	76	69,751
Williamsport	32	97,982	30	4,461	41	70,420	35	16,316
York	60	178,440	52	46,772	37	182,515	45	8,802
Total	2,181	$13,609,776	1,547	$1,583,501	2,264	$17,528,624	1,643	$2,027,343

*Number of Permits—Buildings Not Given.

Rapid conclusion of a five-year old legal wrangle involving eighty-five million dollars, based upon cost of construction of army cantonments during the World War, is being discussed here as a probability. Suits brought by the Department of Justice several years ago against the builders of eleven of the "cities" which housed the national army are threatened with collapse as a result of a decision brought against the government in a "key case" before the United States District Court at Richmond, Virginia.

Attorneys who took part in the trial at Richmond, which lasted three weeks, now are reviewing details of the defeat sustained by the Department of Justice in its suit against Rinehart and Dennis, Inc., contracting firm of Charlottesville, Virginia, builders of Camp Lee. The jury returned a verdict against the government within three minutes after receiving the case last week.

It is this decision, said to be the speediest ever given in a case of such magnitude, which is likely to bring about the collapse of similar cases based upon alleged excessive expenditures in construction of ten other cantonments under the "cost plus" system. The government's contentions in all these cases are virtually the same and the opinion is being expressed that the Department of Justice hardly will be able to move in the face of its thorough defeat at Richmond.

High officials of the government under the wartime administration testified during the course of the Rinehart and Dennis trial, including former Secretary of War Newton D. Baker and Brig. Gen. R. C. Marshall, Jr., chief of the construction division of the army during the war.

Returning to Washington today, Gen. Marshall declared the Richmond decision to be "the death-knell of efforts to discredit a major war-time activity of the government."

"These efforts," he declared, "which had their first incentive in political expediency are now, these several years after they were begun, merely furnishing jobs for Department of Justice 'experts.'

"The attempt to indict not only an entire industry but also thousands of government officers, engineers, accountants, workmen and others who participated in provisions of quarters for the draft army in less than ninety days was too ridiculous from the start to have been the product of good faith and an effort at justice.

"Originally, the government had intended to bring suit against the Rinehart and Dennis firm on the basis of fraud. But, after expenditure of hundreds of thousands of dollars in investigations covering several years, the attorneys from the Department of Justice demonstrated the weakness of their position by pressing action simply on the ground of 'wastefulness.' Even after diluting their case to this extent, they found the jury returning almost instantaneously with a judgment against them.

"If the representatives of the Department of justice should decide to fly in the face of the Richmond decision and press virtually identical cases involving construction of other cantonments, they will obtain nothing but complete exoneration of those who are named in the suits."

AMERICA TRAINS BUILDERS FOR RECONSTRUCTION WORK ABROAD

The trade of carpentry has always been one of the highly honored professions in the Holy Land. Nineteen hundred years ago a humble carpenter's shop in Nazareth became the training school for a great religious leader who spread new lustre upon the craft.

Carpentry still holds its prestige in the Neareastern countries, as is indicated in a recent report from Miss Agnes Evon, educational director of the Near East Relief in Palestine. While the site of the original House of the Carpenter in Nazareth has become a traditional shrine, visited by thousands of pilgrims annually, there is something remarkably appropriate in her statement that only a stone's throw away, American philanthrophy has established a training school for carpenters.

Just across a narrow street from the spot in Nazareth where tradition says St. Joseph taught the young Jesus the use of the saw and the plane, 200 orphaned children are being instructed in the business of building. In a trade school operated without thought of worldly gain, these children are learning from the Near East Relief the art of constructing the homes so needed in Palestine and Syria, themselves torn by war, and overflowing with refugees.

In Russian Armenia still other orphans are being instructed to help themselves in the preparing of new homes. Near Alexandropol a model village has been constructed by the young builders, who have learned their trade in the largest orphanage in the world. Such model villages will multiply until, rising under the diligence and skill of youthful artisans, they will dot the whole Armenian countryside.

Greece, too, is the scene of schooling in the building of homes, with America for inspiration and practical guidance.

In a building boom embracing all the Neareastern lands, under the leadership or encouragement of the Near East Relief, more than 100,000 homes are being built or rebuilt by refugees in Palestine, in Syria, in Armenia, in Greece.

The national life of Greece was all but overturned during the war by the influx of a horde of refugees. After the disaster at Smyrna, a million more flocked to her crowded shores. In all, nearly two millions of them sought refuge in this land of remarkable hospitality. Within the past year 60,000 houses have been erected by and for these refugees; 83,000 families have been grouped in 1220 villages upon two million acres allotted to them in Macedonia. Under the guidance of the League of Nations, 26,000 additional houses are to be built during the coming year.

Observers see a genuine, if subtle, peace movement in the building boom in the Levant. It connotes a growth of confidence where confidence has been unknown, and a victory over fear where fear has long been victor. Peace is in the air, for the real builder is too busy to think of war.

America has done much in the Near East. As much more remains to be done. Lest it be forgotten that aid is yet vital to the Near East, Americans are asked again to observe Golden Rule Sunday, sponsored by President Coolidge, and this year set for December 6. On that day they are asked to put themselves in the places of the homeless and parentless children in American orphanages and to limit their fare to a simple ration of bread and stew.

R. B. Wenner, formerly of 2313 Walnut street, Philadelphia, announces the removal of his offices and garage to larger quarters, 2819 W. Gordon St., Philadelphia.

The man with an order to place doesn't hunt you up in the city directory these days. He hasn't the time. If he can't find you in your trade magazine he can and does find somebody else, and that somebody else books the order.

"Facts are stubborn things." Advertise only the truth about your product and watch the result.

An old legend tells of a magician's vase; the magician could get out of it only that which he put in. Advertising is just that. If you don't get into it the "kick" of salesmanship it is going to miss by just that much the pulling power it ought to have.

We'll *write* your advertising without charge. All we ask is that you pay for the space and provide our ad. man with the necessary selling pointers.

America stands supreme in the development and use of advertising, and advertising is the seed which by implanting desire produces the fruit of social advancement. Education promotes efficiency and efficiency in turn makes possible higher earning power, higher purchasing power and improved living conditions.

Reference Directory for Architects, Builders and Owners

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chitectural Cast Cut Stone Co.....Westmont, N. J.

AREA GRATINGS
ving Iron Works.....1015 Chestnut St., Phila.

ARTESIAN WELLS
dpath & Potter Co.,
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ARTISTS' AND ARCHITECTS' SUPPLIES
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ie Atlas Blue Print Co.....34 S. 16th St., Phila.
eber, F., Co. .....125 S. 12th St., Phila.
eil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINTS
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M. & C. M. Siner.Church and Tacony Sts., Phila.
celsior Brick and Steel Sales Co.,
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BRICK (Face, Common, Paving)
tcham, O. W. .....121 N. 18th St., Phila.

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mstrong & Latta Co.....1926 Sansom St., Phila.
tchell Bros. .....2125 Race St., Phila.

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vitt, Paul J. .....1101 S. 2nd St., Phila.

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20th and Venango Sts., Phila.
e Van Sciver Corporation,
The Parkway at 24th St., Phila.
est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CABINET WORK
iskey Mfg. Co...Columbia and Howard St., Phila.

CAST STONE
chitectural Cast Cut Stone Co.....Westmont, N. J.

CAULKING
erling Products Co. .....831 S. 49th St., Phila.

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est Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

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Lauro, John .....7732 Ardleigh St., Phila.
ssiah, Frederick.Juniper and Cypress Sts., Phila.

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Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)
arce Fireproof Co. .....1911 N. 2nd St., Phila.

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ssiah, Frederick..Juniper and Cypress Sts., Phila.

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rvice Supply Corporation..20th and Venango Sts.

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lby Battersby & Co. .....810 Noble St., Phila.

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ster Builders Co. .....Otis Bldg., Phila.
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uscon Laboratories .....1505 Race St., Phila.

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tts, Horace T., & Co...Erie Ave. & "D" St., Phila.
isbord, Wolf .....138-140 N. 55th St., Phila.

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arce Fireproof Co. .....1911 N. 2nd St., Phila.

FLAG POLES
E. Lingo & Son .....Camden, N. J.

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ncrete Waterproof Paint Co..829 N. 3rd St., Phila.
ster Builders Co. .....Otis Bldg., Phila.
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Smith-Austermuhl Co. .....Camden, N. J.

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Warren-Ehret Co. .....Luzerne and "E" St., Phila.

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Service Supply Corporation,
20th and Venango Sts., Phila.
Warren-Ehret Co. .....Luzerne and "E" St., Phila.

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Chapman Slate Co. .....Bethlehem, Pa.

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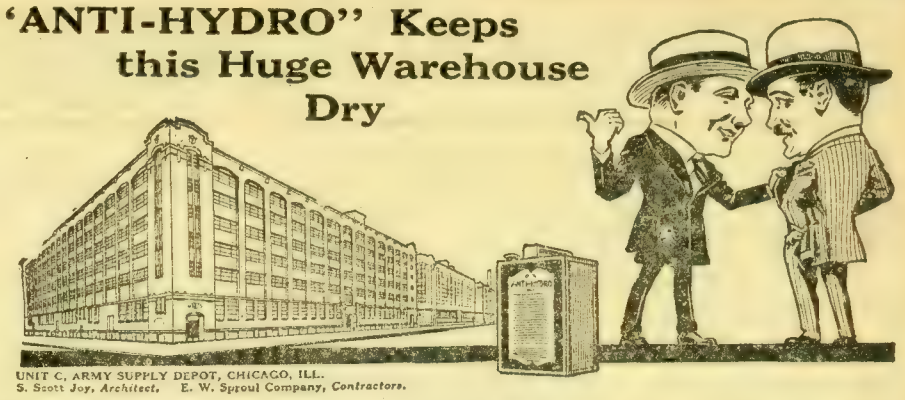
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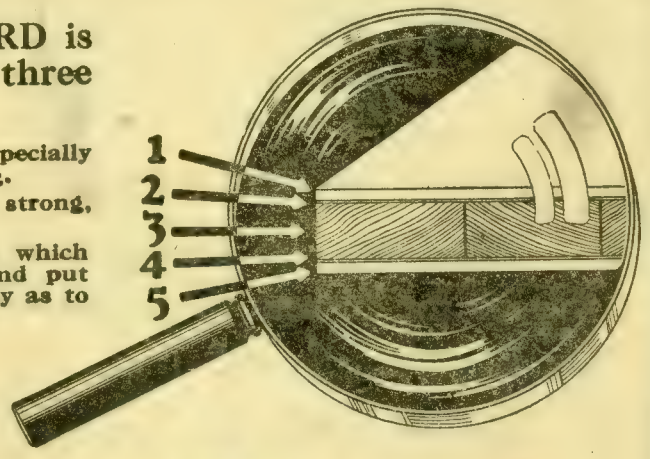
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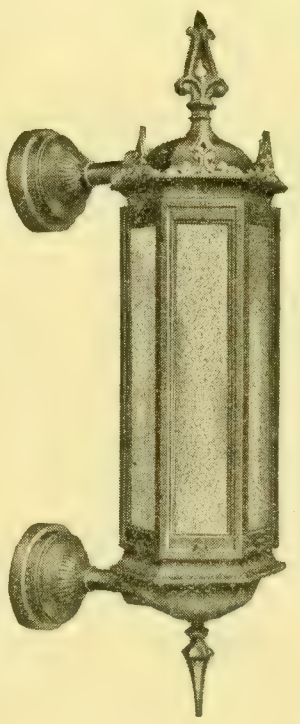
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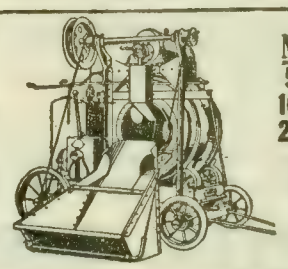
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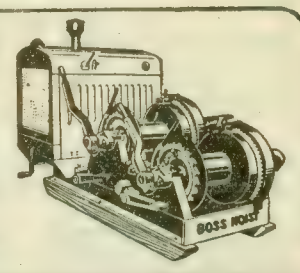
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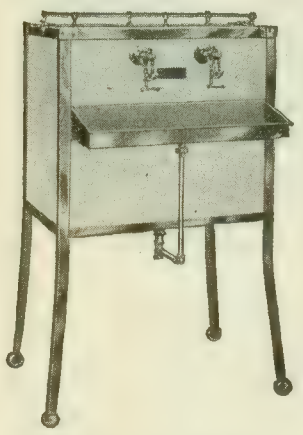
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VOLUME XLI
Number 47

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As The Editor Sees It

FIFTH ANNUAL MESSAGE*

By HON. FRANKLIN D. ROOSEVELT, *Pres., American Construction Council*

Since the organization of the American Construction Council in 1922 by Secretary Hoover and myself upon the urgent request of financial, manufacturing, construction and other representative business interests of the country, the Council has done a splendid service in dealing with the economic problems of the construction industry and their relations to the public.

The past four years have witnessed both in volume and in character of operations an unparalleled period of activity for the construction industry, which has required the utmost effort on the part of the industry itself as well as given untold stimulation to the general business structure of the country. This situation brought with it many new conditions and many new influences. Some of these were good; some of them were not good. In the great onrush of a nationwide demand for housing and business buildings, highways and other kinds of construction, sought at almost any price and wanted without delay, it was often difficult for the buying public to single out for itself what was good and what was bad, and successfully meet the situation.

As the Council early pointed out in this period of hectic building activity it was inevitable that enormous loss must result through the putting up of structures of inferior quality and unsound financing. Badly conceived buildings, badly built buildings, and badly financed buildings were often the usual rather than the unusual occurrence. This situation resulted, as the Council was also quick to point out at the time, from the activities of irresponsible groups found in every element of the industry and especially on the part of fly-by-night speculators who came into the industry to pluck what they could and unload on the unsuspecting public. As a consequence, the responsible parties in the various elements of the industry, and I wish to say that there is just as large a proportion of responsible persons in the construction industry as are to be found in any other great and complex industry of the nation, had almost insuperable handicaps to overcome in gaining the recognition they deserved for the proper conduct of the industry and the protection of the public.

In this ominous situation the American Construction Council stood pre-eminent in giving voice and leadership to the construction industry and in awakening the public to the seriousness of the situation, directing its energies toward eradicating the irrsponsible and evil elements and to building up confidence in the responsible and the good.

This was not an easy job and it required time to show the real results. Some persons, truly interested in the same ends, did not pause long enough to analyze what the American Construction Council was doing and for that reason we did not have in the earlier period the full measure of co-operation from many legitimately engaged in the industry who should have supported this worthy movement, that would otherwise have been forthcoming at that time.

But the Council strong in faith and courage, kept hammering away using the weapon of continuous publicity directed toward an informed public opinion—an intangible and seemingly slow but in the final analysis the most powerful force in creating in the minds of the building buying public an attitude receptive to

*Presented by Dwight L. Hoopingarner, Executive of the Council.

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Of course this has not been done by the Council without the co-operation of many others, for the Council has enjoyed the hearty support of representative groups from all the component parts of the industry as well as of federal and state departments interested in these problems. But the task is not yet done, although the return to a more normal consideration of real building values which has been brought about through the Council's efforts and the general catching up in some lines of building activity is now helping to bring the solution nearer.

You will have brought before you during the sessions of this convention, and you will participate in the conferences on them some of the outstanding problems that still confront us. Among these are the permanency of building construction, the importance of craftsmanship, the relation of building financing to the public good, the need of properly directed city and town planning, and ways and means of securing quality building materials. The speakers on these topics are authorities in their lines and I will not endeavor to elaborate at length on these particular matters.

I wish however to call particular attention to the real emergencies that have resulted from the mushroom growth of many of the country's larger cities without definite and constructive planning. We must build cities and towns, but the time has come when we must build them intelligently. To do this, future needs as well as present conditions must be considered. The health and convenience of the public as well as property values and economy of time are suffering from the lack of well directed building programs in many metropolitan areas. This problem is not confined alone to larger centers but affects every town and village, and intelligent planning on their behalf now will prevent in the future for them the unfortunate conditions that are now causing untold waste in our larger cities either through the continuance of bad conditions or the cost of rebuilding. The undirected mushroom growth of our cities and towns must be controlled. Considerable work along these lines is being done in some localities, but the problem as a whole must be broadly and courageously faced.

There is another problem which merits special attention at this time. As a phase of the general problem of better building. the American public should exercise caution as to what kind of materials it uses in building and be sure that the manufacturers are reliable and of established reputation and, of course, as a matter of patriotism American products should be given preference.

The Council, of course, has been active along other lines than those indicated above. It has, for example, assisted in the general movement for reducing construction peaks and depressions by educating owners and the public to its advantages and co-operating with the Department of Commerce to bring about the coordination within the industry and its related groups necessary to gain the desired correctives. It provides a common and impartial meeting ground for the entire industry and the public to discuss problems of mutual interest in a manner impossible under any other agency. Certain research programs of great importance, as the one having to do with materials and methods of apprentice training, are organized and ready to go forward as soon as the necessary funds are available. These and other matters of vital interest to the public and the construction industry nationally are receiving attention.

It is also a pleasure to report the appointment of Edwin Baxter, Vice-President of the Cleveland Trust Company, as Regional Chairman of the American Construction Council for the Cleveland Federal Reserve Banking District, joining Mr. E. J. Russell, of St. Louis, who is serving in a similar capacity for the St. Louis District. These regional committees together with the officers of the Council, who are acting in a like capacity for the Chicago and New York areas, now form the nucleus of a nation-wide regional origination which is being formed to keep the members of the Council and others interested in various localities of the country in closer contact with the work of the Council than has heretofore been possible.

(*Continued on page* 753)

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School, Griscom and Church streets, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Joachim's Roman Catholic Church. on premises. Stone, brick, 3 stories and basement, slate or slag roof, maple and pine floors, steam heat, electric light, ornamental iron work. Plans nearly completed.

School (alts. and add.), 1324 Spruce street, Philadelphia. Architect, W. E. Jackson, 1006 Spruce street, Philadelphia. Owners, Ethical Culture School, on premises. Plans in progress.

Subway, Filbert Street Bridge, over Schuylkill River, Philadelphia. Architect, private plans. Owners, Pennsylvania Railroad, Broad Street Station, Philadelphia. Completion of electrification of all suburban lines. Plans in progress. Will take bids in January, 1927.

Residences (22), East side Hunting Park avenue, North of Worrell street, Philadelphia. Architect, I. W. Levin, Elrae Building, Philadelphia. Owner, Eugene Olmi, 5728 Cedar avenue, Philadelphia. Brick, 2 stories, 15x44 feet, slag roof, hardwood and cement floors, hot water heat, electric light, metal lath, tile work, garages in basement. Owner ready for sub-bids.

Garage, 4133 Frankford avenue, Philadelphia. Architect, Edward Schoeppe, 316 South Fifteenth street, Philadelphia. Owners, Willard Chevrolet Co., 4131 Frankford avenue, Philadelphia. Brick, 1 story, 52x144 feet (heating reserved), electric light, slag roof, cement floors. Architect taking sub-bids due as soon as possible.

Garage (add.), 5115 Frankford avenue, Philadelphia. Architect, Edward Schoeppe, 316 South Fifteenth street, Philadelphia. Owners, Roeh Buick Co., on premises. Brick, 1 story and basement, 4,800 square feet, steel roof trusses, plank and slag roof, reinforced concrete slab over basement, steam heat, electric light, oil burning, Monitor sash. Architect ready for general bids.

Club Auto Sales and Service Station and Garage, Northeast Corner Broad and Christian streets, Philadelphia. Architects, Watts & Coscia, 1504 Locust street, Philadelphia. Owner, James Toppi, 1408 South Broad street, Philadelphia. Brick, steel, concrete, 1 story and basement and balcony, 60x150 feet, built-up roof, cement and maple floors. Architects taking sub-bids due as soon as possible.

Apartments (2-family) (10), Abbottsford road and Schuyler street. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x58 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. M. Corson Shallcross, York road and Windrim street, Philadelphia, taking sub-bids.

Entrance to Museum, Thirty-fourth and South streets, Philadelphia. Architects, Stewardson & Page, 215 South Fifteenth street; Day & Klauder, Franklin Bank Building; Wilson, Eyre, McIlvaine, 1003 Spruce street, Philadelphia. Owners, University of Pennsylvania, Thirty-fourth and Spruce streets, Philadelphia. Reinforced concrete, brick, concrete, steel, cut stone, 2 stories, mezzanine and basement, 204x65 feet, tile, slag roof, cement and pine floors, hollow tile, plumbing, metal lath, tile, marble and terrazzo work, iron sash, kalamein doors, bond, granite, bluestone, waterproofing, Kasota stone, area gratings. Stewardson & Page taking bids due December 1st before 2 P. M.

Sales and Service Building, 4718 North Broad street Philadelphia. Architects, Thalheimer & Weitz, 10 South Eighteenth street, Philadelphia. Owners, Logan Oakland Motor Co., T. Hendri, manager, on premises. Brick, limestone, reinforced concrete, steel, 3 stories and basement, 60x178 feet, slag roof, cement floors. Architects taking revised bids due as soon as possible.

Maternity Building, Thirteenth and Tabor road, Philadelphia. Architect, Horace Castor, Stephen Girard Building, Philadelphia. Owners, Jewish Hospital, on premises. Brick, cut stone, steel, granite, limestone, 7 stories and basement, 202x46 feet, administration building, 2 stories, 93x45 feet, promenade, tile roof, cement floors, hollow tile, elevators, plumbing, roof ventilators, metal weather strip, waterproofing and dampproofing, architectural terra cotta, ornamental iron work, acoustical treatment, mail chute, steel partitions, brass work, steam heat, electric light, metal lath, tile, marble and terrazzo work, rolled steel sash and skylights, hollow metal sash, kalamein doors, ornamental iron work. Architect taking bids due November 30th.

Supplies, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due December 7th at noon for white lead and pipe.

Supplies, Philadelphia. Owners, City of Philadelphia, Electrical Bureau, 215 City Hall. Aerial, cables, rings, hangers, guy wires. Certified check, 5 per cent. of bid. Owners taking bids due November 29th at noon.

Antitoxin Barn, Second and Luzerne streets, Philadelphia. Architect, P. H. Johnson, Widener Building, Philadelphia. Owners, Department of Public Health, City Hall. Low bidders: Robbins Cont. Co., 1137 North Front street, Philadelphia, $42,800; Cody Const. Co., 4627 Frankford avenue, Philadelphia, $43,033. Plumbing, N. Connolly, 1404 North Eighteenth street, Philadelphia, $11,602. Heating, N. Connolly, 1404 North Eighteenth street, Philadelphia, $6,306. Electric, Ross Elec. Const. Co., 106 Fairmount avenue, Philadelphia;, $3,988; American Laundry Mach. Co., 3846 Lancaster Avenue, Philadelphia, $12,000.

Residences (9), Miller, Ann and Gaul streets, Philadelphia, $31,500. Architect, private plans. Owner, S. A. Buckman, 1128 Somerville avenue, Philadelphia. Brick, 2 stories, 15x26 feet, 12x8 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (alts.), 6315-17 Girard avenue, Philadelphia, $5,000 total. Architect, private plans. Owners, Roy E. Seyler, Inc., 6932 Market street, Philadelphia. General alterations. Permit issued.

Residence, North side Friendship street, West of Castor road, Philadelphia, $4,000. Architect, private plans. Owner, William Kirk, on premises. Brick, 2 stories, 16x38 feet, slag roof, pine floors, electric work. Permit issued.

Elevator Shaft, Northeast Corner Fourth and Cherry streets, Philadelphia, $2,000. Architect, private plans. Owners, Felton Sibley Co., on premises. Permit issued.

Garages (2), Southwest Corner Torresdale avenue and Margaret street, Philadelphia, $7,000 total. Architect, private plans. Owner, S. Rothenberg, 4938 North Eleventh street, Philadelphia. Brick, 1 story, irregular size, slag roof, cement floors, electric light. Permit issued.

Store and Storage, 1001 East Passyunk avenue, Philadelphia, $2,000. Architect, private plans. Owner, Fortunato Brino, 635 Kimball street, Philadelphia. Brick, 2 stories, 35 feet 9 inches x irregular. Permit issued.

Residences (14), East side Kemble street, South of Champlost avenue, $49,000 Architect, private plans. Owner, S. A. Buckman, 1128 Somerville avenue, Philadelphia. Brick, 2 stories, 15x26 feet, 12x8 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (8), North side Kenwyn street, East of Castor road, $56,000. Architect, private plans. Owner, John D. Fotheringham, 1000 Arrott street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (2), West side Fry street, East of Ridge avenue, $8,400 total. Architect, private plans. Owner, J. Trzybick, 3951 Terrace street, Philadelphia. Frame, 2 stories, 16x49 feet, slag roof, pine floors, electric light. Permit issued.

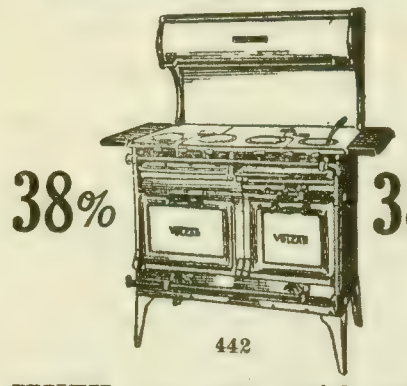
Residence (alts.), 6311-13 Girard avenue, Philadelphia, $5,000 total. Architect, private plans. Owner, Ray E. Seyler, 6932 Market street, Philadelphia. General alterations. Permit issued.

Residences (6), Geneva and Marwood streets, Philadelphia, $24,500 total. Architect, private plans. Owner, Paul Trimboli, 4435 Lawrence street, Philadelphia. Brick, 2 stories, 16x38 feet and 14x28 feet, 11x10 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

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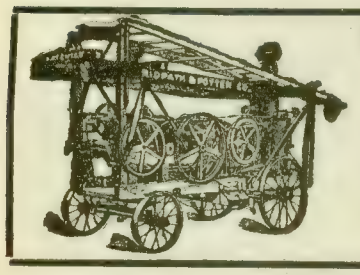
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Storage House (alts.), Forty-first to Forty-second, Chestnut to Sansom, and **New Boiler House,** $90,000. Owners, Philadelphia Rapid Transit Company, 820 Dauphin street, Philadelphia. General alteraeions. Plans filed.

Motors and Plumbing, Contracts No. 156 and No. 146, Broad Street Subway, Philadelphia. Owner, Department of City Transit, 1211 Chestnut Street, Philadelphia. Owners taking bids due Dec. 3rd at noon. Deposit $10.00, refunded. Certified check 10%. Furnish 312 Railroad motors completed; furnish and install plumbing work in 2 sub-station buildings.

Pennsylvania Railroad Work. Contract No. 66: bids due Nov. 26th. Contract No. 68: bids due Dec. 3rd.

Buildings, S. Columbia Avenue, between Front and Blair Streets, Philadelphia. Architect, Andrew J. Sauer Co., 1505 Race Street, Philadelphia. Owner, Philadelphia Motor Co., on premises. Reinforced concrete, brick, 4 stories and basement, 145x114 feet, slag roof, cement floors, elevators, steam heat, electric light, rolled steel sash, steel and kalamni doors, bond, floor hardener, iron stairs, ornamental iron work, metal toilet partitions, sprinkler system, plumbing, rolling steel doors, area gratings, bronze letters. Architect taking bids due Dec. 1st.

Office Building, Southwest corner Fifteenth and Walnut Street, Philadelphia. Architect, name withheld. Owner, Wiltshire Realty Co., care of Mr. Rowland, Widener Building, Philadelphia. Limestone, brick, concrete, steel, 15 stories, 20x120 feet. Plans in progress. Announcement will be made in a few days.

Laundry Building, Allegheny Avenue, west of Third Street, Philadelphia. Architect, private plans. Owner, Fairhill Laundry Co., on premises. Brick, steel, 1 story, 150x150 feet, electric light, slag roof, cement floors. Owner taking bids due Nov. 26.

Junior High Schools (2), Felton Ave., 17th and 18th Streets, and Luzerne Street, Philadelphia. Architect, I. T. Catherine, 19th, above Chestnut Street, Philadelphia. Owner taking bids due Dec. 7th at noon.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Dye House Extension, Cresson, above Ridge Avenue, Philadelphia. Architect, private plans. Owner, Wissahickon Plush Co., on premises. Brick, 1 story, slag roof, cement floors, electric light. Contract awarded Frank J. Smith, 331 Lyceum Ave., Philadelphia.

Restaurant (alts. and add.), 1432 Glenwood Ave., Philadelphia, $6,000. Architect, private plans. Owner, Elizabeth McShea, 19th and Parrish Streets, Philadelphia. Brick, 1 story, 16 feet x irregular, carpentry and millwork, electric. Contract awarded F. A. Havens Co., 845 North Nineteenth Street, Philadelphia.

Shop, 1415 Melon Street, Philadelphia, $3,000. Architect, private plans. Owner, Louis J. Kolb, on premises. Carpentry and millwork, electric light, etc. Contract awarded Geo. L. Dougherty, 2041 Moravian Street, Philadelphia.

Sub Station and Wagon Shed, 1508 North Twenty-fifth Street, Philadelphia, $10,000. Architect, Stuckert and Co., Crozer Building, Philadelphia. Owner, Scott Powell Dairies, Forty-fifth and Parrish Sts., Philadelphia. Brick, terra cotta, steel, concrete, 2 stories and basement, slag roof, cement floors, concrete work, carpentry and millwork, electric light, metal lath, rolled steel sash doors, bond, asbestos siding, plastering, cork insulation, rolled steel shutters. Contract awarded E. E. Hollenback, Inc., 1910 N. Marshall St., Phila.

Garage, 819-23 Walnut Street, Philadelphia. Architect, Max A. Bernhardt, 721 Walnut Street, Philadelphia. Owner, J. Bodek, 216 Ledger Building, Philadelphia. Brick, hollow tile, cut stone, steel, 6 stories and basement, 60x122 feet, slag roof, cement floors, elevators, plumbing, terra cotta coping, iron work, demolition, bond, fire doors, rolled steel sash and skylights, metal lath, steam heat, electric work. Contract awarded Golder Const. Co., 243 South Fifteenth Street, Philadelphia.

Restaurant Building (alts.), 126-30 South Fourth street, Philadelphia. Architect, Ralph Bencker, Bellvue Court Building, Philadelphia. Owners, Horn & Hardart Baking Co., 214 South Tenth street, Philadelphia. Reinforced concrete, brick, granite, limestone, steel, 2 stories and basement, 60x42 feet, slag roof, cement floors, hollow tile, metal lath, tile, marble and terrazzo work, hollow metal

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doors, metal bulks, ornamental iron work, integral waterproofing, dampproofing, underpinning, caulking, metal toilet partition, bronze work, katostone. Contract awarded Ketcham & McQuade, 1029 Brown street, Philadelphia.

Building (alts.), Southeast Corner Marshall and Market streets, Philadelphia. Architect, Gabriel Roth, 1629 Chestnut street, Philadelphia. Owner, Harry Goldberg, on premises. Sstructural steel, electric work, plumbing, plastering, steam heat, tile and marble work, oak floors, painting and glazing, iron work, brick work, stone work. Contract awarded B. Bornstein, 1319 Wingohocking street, Philadelphia.

Apartment House, Southeast Corner Twenty-third and Walnut streets, Philadelphia. Architect, Joseph Margolis, 1505 Race street, Philadelphia. Owner, Joseph Rabinowitz, Northeast Corner Thirty-seventh and Walnut streets, Philadelphia. Brick, cut stone, steel, 13 stories and basement, and power house, 60x106 feet, slag roof, oak, pine and cement floors, marble and terrazzo work, bond, ornamental iron work. Contract awarded Boyle Robertson, Washington, D. C.

Alterations and Additions, 6327-29 Woodland avenue, Philadelphia. Architect, private plans. Owners, F. W. Woolworth Co., Wilkes-Barre, Pa. New store front, carpentry and mill work, plastering, steam heat, electric light, metal lath, ornamental iron work. Contract awarded M. B. Stackhouse, 6717 Yocum street, Philadelphia.

Church (interior finish), Fifty-sixth and Cedar avenue, Philadelphia. Architects, H. D. Dagit & Son, 1329 Race street, Philadelphia. Owners, Church of Transfiguration of Our Lord, Rev. D. I. McGettigan, on premises. Bond, stone work, limestone, cut stone, sandstone, concrete, architectural terra cotta, iron and steel work, iron stairs, metal lath, plastering, ornamental plaster, carpentry and mill work, maple floors, painting, glazing and terrazzo and mosaic floors, bronze and Faience, tile work, electric light. Contract awarded F. V. Warren Co., 1913 Arch street, Philadelphia, $190,000..

Residence and Garage, Chestnut Hill, Pa. Architects, Tilden, Register & Pepper, 1520 Locust street, Philadelphia. Owner, Samuel Bell, 3rd, 7816 Roanoke street, Philadelphia. Stone, half timber, 2¾ stories, 24x190 feet, shingle roof, cement and hardwood floors, hot water heat, electric light, tile and marble work. Contract awarded F. G. Stewart, 1520 Locust street, Philadelphia.

Store Building, 1719 Chestnut street, Philadelphia, $80,000. Architects, Hodgens & Hill, 1390 South Fifteenth street, Philadelphia. Owner, J. Jadowich, 3300 Baring street, Philadelphia. Brick, 4 stories, 29x1115 feet, slag roof, steam heat, electric light. Contract awarded Golder Const. Co., 263 South Fifteenth street, Philadelphia. (Note change in contractor.)

Residence, Garage and Stores, Northwest Corner Castor and Chandler streets. Architects, Watts & Coscia, 1504 Locust street, Philadelphia. Owner, Luigi Bocchiochio, 134 West Cumberland street, Philadelphia. Brick, 2 stories, 16x56 feet, 17x26 feet, 18x20 feet, slag roof, cement and hardwood floors, hot water heat, electric light, tile work. Contract awarded J. S. Buckart Co., 5519 North Fifth street, Philadelphia.

Office Building, Mermaid lane, Chestnut Hill, Pa. Architect, H. L. Duhring, 1309 Locust street, Philadelphia. Owner, Andrew S. O'Neill, care of architect. Contract awarded J. Riley & Son, Forrest avenue, Mt. Airy, Pa.

Warehouse and Factory, Water street, South of Market street, Philadelphia. Architect, Edgar V. Seeler, Franklin Bank Building, 1416 Chestnut street. Owner, Clarence C. Brinton, care of Germantown Trust Co., Germantown and Chelten avenues, Philadelphia. Brick, steel, 1 story and basement, slag roof, cement floors. Plans in progress. Too early for details. Contract awarded Doyle & Co., 1519 Sansom street, Philadelphia, without competition.

Swimming Pool (alts. and add.), Woodside Park, Pa. Architect, Edward Schoeppe, 1437 Spruce street, Philadelphia. Owners, Woodside Real Estate Co., Woodside Park, Pa. Carpentry and mill work, slag roof, sheet metal work, structural steel, hardware (painting and glazing, plumbing, drainage, concrete and excavations, foundations, electric work, iron rails all reserved). Contract awarded Wintz Brothers, 1619 Seller street, Philadelphia.

Deaconess' Home (alts.), Northwest Corner Sixth and Vine streets, Philadelphia, $9,800. Architects, Bureau of Architecture of Methodist Episcopal Church, Seventeenth and Arch streets, Philadelphia. Owners, Women's Home Mission of Methodist Episcopal Church, on premises. Carpentry, mill work, plastering, composition floors, demolition, electric light, hardware, iron work, painting, glazing, plumbing, sheet metal work, tile work, salt glazed tile, repairs to roof. Contract awarded to Warren E. Biscoe, 3946 Baring street, Philadelphia.

Residences (2) (alts. and add.), 320-22 South Twelfth street, Philadelphia, $15,000. Architect, private plans. Owner, Louis Hessin, 2109 Spring Garden street, Philadelphia. (1) Brick 3 stories add., 12x30 feet, general alterations, (1) general alterations and heating. Contract awarded to Weinstein & Pearson, 222 South Fifty-seventh street, Philadelphia.

Storage Building (add. and alts.), Northeast Corner Twenty-first and Washington avenue, Philadelphia, $11,000. Architect, private plans. Owners, Merchant & Evans, 2025 Washington avenue, Philadelphia. Brick, 1 story add., 45x65 feet, general alterations. Contract awarded to Haverstick and Borthwick, 1505 Race street, Philadelphia.

Mill (add.), Paper Mill road, North of Fountain street, Philadelphia, $5,000. Architect, private plans. Owners, Dill & Collins, Inc., 112 North Twelfth street, Philadelphia.

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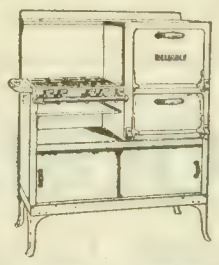
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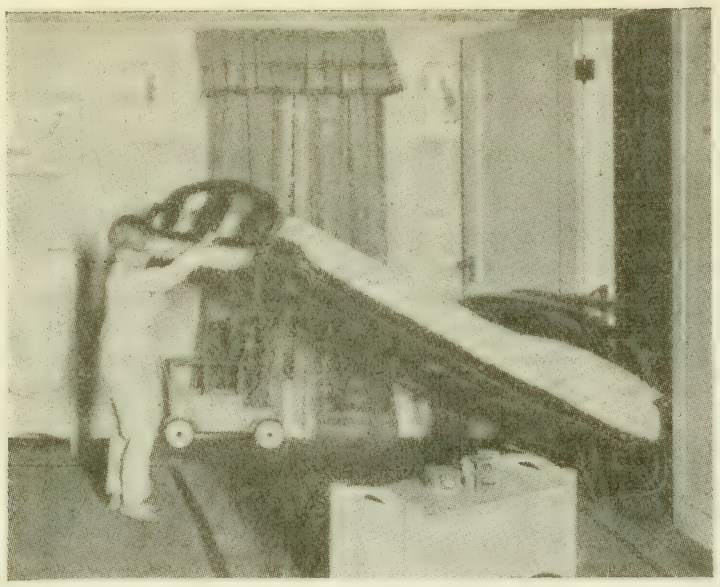
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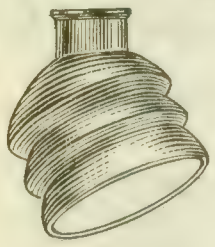
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Brick, 1 story add., 15x34 feet. Contract awarded to Schaefer & Co., 1600 Arch street, Philadelphia.

Hangar, Northeast Corner Island road and Penrose Boulevard, Philadelphia, $4,800. Architect, private plans. Owners, Ledington Exh. Co., Atlantic Building, Philadelphia. Steel, iron, 1 story, 40x92 feet. Contract awarded to Maryland Metal Building Co., Pennsylvania Building, Philadelphia.

Residences (2), East side Northumberland street, South of Cottman street, $3,800 each. Architect, private plans. Owner, John McMillen, Burholme, Philadelphia. Brick, 2 stories, 16x38 feet, slag roof, pine floors, electric work. Contract awarded to F. E. Lampman, 7334 Bingham street, Philadelphia.

Garage, 3541 North Camac street, Philadelphia, $3,500. Architect, private plans. Owner, Mrs. Jennie Abrams, 3540 Old York road, Philadelphia. Brick, 1 story, 16x136 feet, slag roof, metal cornice, cement floors, wooden doors, electric light. Contract awarded to W. F. Chapman, 1805 West Venango street, Philadelphia.

Residence (add.), 754-56 South Fifteenth street, Philadelphia, $2,000. Architect, private plans. Owners, T. & H. Steinman, 811 South Sixth street, Philadelphia. Brick, third story add., 13x30 feet, pine floors, electric light. Contract awarded to M. Katz, 626 Tasker street, Philadelphia.

Residence, West side Fourth street, North of Sixty-seventh street, Philadelphia, $7,300. Architect, private plans. Owner Emil P. Winkler, 228 West Furley street, Philadelphia. Frame, 2 stories, 25x30 feet, hardwood and pine floors, hot water heat, electric light. Contract awarded to R. P. Brotemarker, 908 West Susquehanna avenue, Philadelphia.

Residence (add.), 1806 Pine street, Philadelphia, $2,600. Architect, private plans. Owner, Mrs. Joseph V. F. Clay, on premises. Brick, 1 story add., 14 feet 6 inches x 13 feet. Contract awarded to William E. Hale, 1516 Summer street, Philadelphia.

Residence (add.), Southwest Corner Fifty-third and Vine streets, Philadelphia, $2,000. Owner, S. Frankenfield, on premises. Brick, 1 story add., 12x30 feet. Contract awarded to Robert Grice, 255 North Fifty-second sereet, Philadelphia.

Roller Coaster, South side Ford road, East of Monument avenue, $40,000. Architect, private plans. Owners, Woodside Real Estate Co., Woodside Park, Philadelphia. Contract awarded to Philadelphia Tobaggon Co., 130 East Duval street, Philadelphia.

Fraternity House (alts.), 3815 Walnut street, Philadelphia, $10,000. Architect, private plans. Owner, Samuel Green, on premises. General alterations. Contract awarded to H. J. Levinson, Elrae Building, Philadelphia.

Residence, South side Arthur street, West of Castor road, Philadelphia, $9,000. Architect, private plans. Owner, Baltzas Bilzer, G and Ontario streets, Philadelphia. Brick, 2 stories, 26x30 feet, hardwood and pine floors, electric work. Contract awarded to Charles W. Sinn, 201 East Robat street, Philadelphia.

Residence (add.), 6724 North Broad street, Philadelphia, $7,500. Architect, private plans. Owner, Morris A. Krantz, 6724 North Broad street, Philadelphia. Brick, 2 stories add., 20x12 feet. Contract awarded to A. Barsky, 528 Spruce street, Philadelphia.

Store Building (repairs), 1930 Chestnut street, Philadelphia, $5,000. Architect, private plans. Owner, John Goldman, on premises. General fire repairs. Contract awarded to Pennsylvania Eng. & Const. Co., Real Estate Trust Building.

Residence (add .and alts.), 108 West Queen Lane, Philadelphia, $4,500. Architect, private plans. Owner, Mrs. A. Pietz, on premises. Brick, 1 story add., 12x8 feet, general alterations. Contract awarded to John Roman, 414 East Bringhurst street, Philadelphia.

Residence (add. and alts.), 6622 Greene street, Germantown, Philadelphia, $2,375. Architect, private plans. Owner, M. Alpren, on premises. Stone, 1 story add., 25x15 feet, general alterations. Contract awarded to William C. Wright & Son, 22 Harvey street, Philadelphia.

Store and Storage Building, 917 North Third street, Philadelphia, $5,000. Architect, private plans. Owner, D. J. Connelly, 521 Green street, Philadelphia. Brick, 3 stories, 16x42 feet. Contract awarded to C. Richards, Southeast Corner Sixth and Wood streets, Philadelphia.

Shop (add.), 1537 Gillingham street, Philadelphia, $2,200. Architect, private plans. Owner, H. G. Thaise, 4528 Frankford avenue, Philadelphia. Brick, 2 stories add., 14x29 feet. Contract awarded to J. D. Fotheringham, 1000 Arrott street, Philadelphia.

Pennsylvania Construction News

Miscellaneous Work, various locations. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Board of Education, J. Milton Lutz, Upper Darby, Pa. Owners taking bids due December 1st, 8 P. M. Highland Park School, areaway, stone wall, iron railing, cement floor. Certified check, $50. Drexel Hill School, Bywood School, Stonehurst School, Highland Park School, window shades. Certified check, $50. Electric fixtures for all schools above mentioned.

Gymnasium Building, Indiana, Pa. Architect, Lawrie and Green, Parkside Building, Harrisburg, Pa. Owner, Indiana State Normal School, care of Wm. Keith, Indiana, Pa. Owner taking bids due Dec. 4. Note extension.

Residence, Villa Nova, Pa. Architect, R. Brognard Okie, 208 South Smedley Street, Philadelphia. Owner, Louis H. Parsons, care of Architect. Stone, 2½ stories and basement, 55x21 feet, 20x23 feet, wing 20x20 feet (plumbing, heating, electric, reserved), shingle roof, oak and pine floors, cement floors, metal lath, flagstone, plastering, carpentry and millwork, painting and glazing, metal weatherstrip. Architect taking bids due at once.

Church, Shamokin, Pa. Architect, Norman Hulme, 1524 Chestnut street, Philadelphia. Owners, Salem Reformed Church, Shamokin, Pa. Sketches drawn.

Club House, Media, Pa. Architects, Price & Walton, 119 South Fourth street, Philadelphia. Owners, Women's Club, Media, Pa. Brick, stone, 2 stories. Sketches drawn. Plans about to be started.

Church, Shenandoah, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Parish of the Annunciation, Shenan-

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doah, Pa. Frame, 1 story, 72x128 feet, shingle roof, pine floors, electric light. Plans nearly completed.

School, Shamokin, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, Coal Township School District, W. E. Beilski, secretary, 1557 Oneida street, Shamokin, Pa. Brick, fireproof, 2 stories, 235x75 feet (heating, plumbing and electric separate). Plans in progress.

Repair Shop, Pottstown, Pa. Architect, W. D. Hill, Pottstown, Pa. Owner, J. Yaislee, Pottstown, Pa. Brick, 1 and 2 stories, 43x115 feet, 40x80 feet, slag roof. Plans in progress.

Bridge, over Schuylkill, near Phoenixville, Pa., $175,000. Engineer, H. K. Ellis, Phoenixville, Pa. Owners, Chester and Montgomery Counties, Phoenixville and Norristown, Pa. Reinforced concrete, 244-foot roadway Plans in progress. Bids will be taken early in 1927.

Residence (alts.), Fourth and Washington streets, Reading, Pa. Architect, R. Heckman, Baer Building, Reading, Pa. Owner, Dr. Specker, on premises. General alterations. Plans in progress.

School, Allentown, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Catherine of Sienna Roman Catholic Church, Allentown, Pa. Brick, 2 stories and basement, 127x62 feet, slag roof, maple and pine floors, steam heat, electric light, ornamental iron work. Plans nearly completed.

Garage, Mahonoy City, Pa. Architect, William H. Lee, Schaff Building, Philadelphia. Owners, Graham Garage & Supply Co., Mahonoy City, Pa. Brick, concrete, steam heat, electric light, slag roof, cement floors. Plans in progress.

Residence and Garage (alts. and add.), Norristown, Pa. Architect, E. Lane Crawford, Norristown, Pa. Owner, Harry Howden, care of architect. Hollow tile and stucco, 2 stories, built-up roof, cement floors. Plans in progress.

Residences (200), Brookline, Delaware County, Pa. Architect, E. C. May, DuPont Building, Wilmington, Del. Owners, Thomas Conway, Jr., Corp., 1500 Chestnut street, Philadelphia. Hollow tile, brick, stucco, stone, 2½ stories, 40x55 feet, slate and various roofing, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architect taking sub-bids on 4.

Nurses Home, Lewistown, Pa. Architects, Witman & Royer, 47 East Market street, York, Pa. Owners, Lewistown Hospital, E. L. Snyder, Lewistown, Pa. Brick, 2 stories and basement, 65x33 feet, slate roof, pine floors, tile work, electric work (heating reserved). Architects ready for bids.

Shop Building, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, Oscar Funk, 1237 East King street, Lancaster, Pa. Concrete block, steel, 1 story, 40x100 feet, slag roof, concrete floors, steam heat, electric light, steel sash and skylights. Architect taking bids.

Consolidated School, Schwenkville, Pa. Architect, C. J. Lappley, Harrisburg, Pa. Owners, School District, Lower Frederick Township, W. S. Brey, Schwenkville, Pa. Fireproof, 1 story, 17 class rooms, gymnasium and auditorium, slag roof, composition floors, hollow tile, safety treads, roof ventilators, metal lath, steel sash, bond, iron stairs (heating, plumbing, electric separate bid). Owners taking bids due November 29th.

Residence, Doylestown, Pa. Architects, Willing, Sims & Talbutt, 126 South Eighteenth street, Philadelphia. Owner, William R. Mercer, care of architect. Brick, 2½ stories and basement, 50x154 feet, tile roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Architects taking bids due December 2nd.

Church (rebuilding), Sinking Springs, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. John's Reformed Church, George R. Reber, secretary, Building Committee, 123 Woodrow avenue, Sinking Springs, Pa. Brick, 1 story, 46x65 feet, slate roof, pine, concrete floors, electric light (heating reserved). Owners taking bids due November 30th.

School, Swarthmore, Pa. Archieects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Swarthmore, Pa. Brick, steel. Owners taking bids due December 7th.

High School, Sixth, Seventh, Walnut and Spruce streets, Darby, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District. J. E. Mellon, 1012 Pine St., Darby, Pa. Lowest bids submitted by the following, who will refigure on minor changes. Bowden Const. Co., 1607 Summer street, Philadelphia, $183,500, wing add. $41,000; P. H. Kelly, 1713 Sansom street. Philadelphia, $185,-8844, wing add. $38,600. Plumbing, John Borden & Bro., 637 North Nineteenth street, Philadelphia, $9,343, wing add. $1,543; B. L. Marker, Chester, Pa., $9,385, wing add. $1,648. Heaitng, American Heating & Ventilating Co., Schaef Building, Philadelphia, $1,992, wing add. $1,695; Keystone Heating & Ventilating Co., 1317 South Juniper street, Philadelphia, $20,000, wing add. $1,900.

Road Work, Pennsylvania. Owner, Department of Highways, Commonwealth of Pennsylvania, Harrisburg, Pa.

Allegheny Co., R-70, Sec. 4a, O'Hara and Harmar Townships, 21,803 feet, one course reinformed concrete. Certified check $2500.

Cambria Co., R-525, A-4240, Lower Yoder Township, 9,50b feet, one course reinforced concrete. Certified check $2000.

Huntingdon Co., 4-431, Cromwell and Clay Townships, 28,500 feet, grading and drainage. Certified check $3500.

Jefferson Co., R-61, A-4233, Snyder Township, 13,505 feet, one course reinforced concrete. Certified check $2500.

Reinforced concrete Viaduct, 408 feet in length, consisting of 9 flat span units, 45 feet, C-C bearings, piers and abutments, roadway, 24 feet with 18 feet of reinforced concrete wearing surface on the floor; also 1322 feet approach grading only, Clymer Boroough and Cherryhill Township, between Station 1/00 and 16/30, on Route 262, Indiana Co., crossing Two Lick Creek and C. T. & D. R.R. Certified check $2000.

Bridge, reinforced concrete open spandelarch, 594 feet, consisting of 4-100 feet clear span, underclearance of 30 feet, clear roadway 20 feet and one 4 feet walk, situated east of Irvington, over the Allegheny River at Station 1566, Route 93, Warren Co. Certified check 2000. Deposit $2.50. No refund.

Pennsylvania Contracts Awarded

Residence and Garage, Overbrook Hills, Merion, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owner, Rev. W. Edward Jordon, care of architect. Brick, hollow tile, stucco, 2½ stories and basement, 1½ stories and basement, 60x40 feet, garage, 19x15 feet, shingle roof, oak, pine and cement floors, plumbing, ornamental iron work, bond, tile work, metal lath, electric light, hot water heat, area grills. Contract awarded Rudolph S. Lukens, Bala-Cynwyd, Pa.

Garage, Tenth and Spring Garden streets, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Brotherhood of Railroad Trainmen, Hunsicker Building, Allentown, Pa. Brick, cinder block, concrete, 2 stories, 99x99 feet, built-up roof, concrete floors, waterproofing, cast stone, kalamein doors. Contract awarded to Peters & Marshall, 211 South Franklin street, Allentown, Pa.

Publishing House, Lancaster, Pa. Architect, M. R. Evans, 10½ East Orange street, Lancaster, Pa. Owners, Intelligencer and News Journal, 8 West King street, Lancaster, Pa. Brick, steel, 4 stories and basement,



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136x36 feet, composition roof, maple floors, hollow tile, elevators, roof ventilators, terra cotta, ornamental iron, fire doors, steel skylights and sash, tile and marble, metal lath, electric light, vapor heat. Contract awarded to D. S. Warfel, 452 North Prince street, Lancaster, Pa.

Mill Building, Reading, Pa. Architect, L. D. Lance, 108 North Fifth street, Reading, Pa. Owners, Northeastern Lumber Co., Eleventh and Berks streets, Reading. Brick, steel, concrete, 1 story and basement, 80x210 feet, built-up roof, concrete and pine floors, freight elevators, roof ventilators, waterproofing and dampproofing, floor hardener, fire doors, steel sash, steam heat, electric light. Contract awarded to H. J. Raudenbush, 1324 Perkiomen avenue, Reading, Pa.

Bank, Elkins Park, Pa. Architect, private plans. Owners, Elkins Park National Bank, Elkins Park, Pa. Brick, cut stone, steel, 1 story and basement, 32x32 feet, slag roof, cement floors. Contract awarded Hesswin Co., 2047 Arch street, Philadelphia.

Residence (alts.), Cynwyd, Pa. Architects, Savery & Scheetz, Stephen Girard Building, Philadelphia. Owner, Barton W. Currie, Cynwyd, Pa. Contract awarded W. O. Springer, 2004 Naudain street, Philadelphia.

Residence (add.), Elkins Park, Pa. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelphia. Owner, S. B. Koffler, Elkins Park, Pa. Frame, stone, 2 stories, electric light, plumbing, tile and marble. Contract awarded Fesmire Brothers, Huntingdon Valley, Pa.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Cambria County, R-221, A-4241, Sec. 4, Clearfield and Allegheny Townships, Chester Springs Borough. One course reinforced concrete. Contract awarded to Paul Const. Co., Cresson, Pa., $92,798.544.

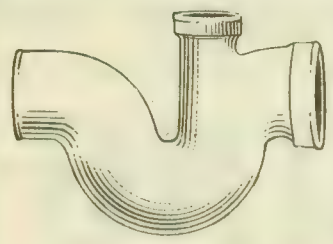
Lehigh County, R-4298, Whitehall Townshsip. One course reinforced concrete. Contract awarded to Swanger & White, Lebanon, Pa., $51,278.57.

Pennsylvania State Highway Work. Bids received Oct. 15th and Nov. 5th.

Northampton Co., 4-175, Sec. 4, A-3364, Lehigh Township, Walnut port Borough. One course reinforced concrete. Contract awarded to Lincoln Const. Co., Strafford, Pa., $110,-952.93.

Lehigh Co., R-487, A-4375, Salisbury Township, 10,159 feet, one course reinforced concrete. Contract awarded to Sherman and Rhodes, Weissport, Pa., $77,284.30.

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New Jersey Construction News

Residence, Woodbury, N. J. Architects, C. R. Peddle and S. Wasserman associate, 136 South Fourth street, Philadelphia. Owner, Mr. Goodrich, Woodbury, N. J. Stone, 2½ stories, 30x60 feet. slate roof, hardwood floors, hot water heat, electric light. Plans in progress. Too early for details.

Mayfair Apartment Hotel, Boston avenue and Boardwalk Atlantic City, N. J. Architect, Louis I. Brook, 65 Madison avenue, New York City. Owner, Morris Ellis, 419 Arch street, Philadelphia. Brick, steel, 19 stories, 177x230 feet, hardwood floors, steam heat, electric light, tile, marble work, rolled steel sash, fire doors, metal bulks, ornamental iron work, slate roof, piling, elevators. Plans about completed. Architect will soon take bids.

Residence and Garage, Hightstown, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mayor Thompson, Hightstown, N. J. Stone, 2½ stories, 50x108 feet, 40x25 feet, Stonefield slate roof, oak and slate floors, vapor heat, electric light, tile and marble, ornamental plaster, ornamental iron. Architect will be ready for revised bids at end of week.

Bungalows (14), Happyhollow avenue, Magnolia Heights, N. J. Architect, private plans. Owner, Constantin Franz, Magnolia Heights, N. J. Frame, stucco, hot water heat, electric light, pine floors. Owner will build.

School, Mt Ephraim, N. J. Architects, Edwards & Green, Camden, N. J. Owners, Board of Education, Mt. Ephraim, N. J. Ready for bids in two weeks.

Cottage for Women, Clinton, N. J. Architects, Division of Architecture and Construction, Charles Leathem, Director, Trenton, N. J. Owners, Department of Institutions and Agencies, William J. Ellis, Director, Trenton, N. J. Brick, reinforced concrete, cut stone, steel, 2 stories. and basement, 135x42 feet, slag and slate roof, maple and cement floors, hollow eile, metal weather strip, integral and membrane waterproofing, ornamental iron, iron stairs, bond, kalamein doors, steel sash, tile and marble, metal lath, cinder concrete block, mastic floors (plumbing, heating and electric separate. Certified check, 5 per cent. Owners taking bids due November 24th.

Apartment House, 117 South Illinois avenue, Atlantic City, N. J. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, name withheld. Reinforced concrete, brick, cut stone, steel, 12 stories and basement, 55x94 feet, slag roof, cement floors, hollow tile, elevators, plumbing, shoring, waterproofing and dampproofing, architectural terra cotta, steam heat, electric light, metal lath, tile and marble work, hollow metal doors, bond, ornamental iron work, brass pipe. Architects taking bids due December 1st.

Acartment House (16-family), 1289 Dayton street, Camden, N. J., $30,000. Architect, A. B. Gill, 328 Market street, Camden, N. J. Owner, Ludwick Grabowski, 1225 Dayton street, Camden, N. J. Brick and block, 2 stories, 37x123 feet, slag roof, hardwood and pine floors, vapor heat, electric light, tile work. Permit issued.

Installation of Steam and Return Lines in Conduit from Tunnel to Employees' Building, Greystone Park, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Owners taking bids due November 30th at 2 P. M. (note date). Specifications at 826 Perry Building, Philadelphia.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Half through plate girder bridge in concreteover Passaic River at M. P. 13.5 on State Highway Route 12, Essex and Passaic Counties. Certified check, 10 per cent. Deposit, $10. Owners taking bids due December 6th at noon.

Road Work, New Jersey. Owners, State Highwac Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Route 12, Section 9, Fairfield to Little Falls, Essex and Passaic Counties. Lowest bidder, P. Camillo & Co., Westfield, N. J., $207,249.94.

Bridge, Barnegat Bay, between Seaside and Island Heights, N. J. Owners, State Highway, A. Jelin, Trenton, N. J. Timber trestle type drawn span, 7,100 feet long. Low bidders: Eastern Engr. Co., Atlantic City, N. J., $300,096; Stillman, Selehanty & Ferris, Jersey City, $328,921.

Residences (2), 924-26 Lansdowne Avenue, Camden, N. J., $10,000. Architect, private plans. Owner, Anthony Wacnick Building Corporation, Sixth and Kaighn Avenue, Camden. Brick, 2 stories, 14½x13 feet, slag roof, hot water heat, electric light. Owner will build.

New Jersey Contracts Awarded

Addition, 1000 South Fourth street, Camden, N. J. Architect, private plans. Owner, Ralph Marchione, 1000 South Fourth Street, Camden, N. J. Brick, 1 story, 17x30 feet, slag roof, carpentry and millwork. Contract awarded Candelano Carrullo, 601 South Fourth Street, Camden, N. J.

Psychopathic Building, State Hospital for Insane, Trenton, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Stone, brick, reinforced concrete, granite, limestone, 3 stories and basement, 97x45 feet, slate roof, linoleum floors, hollow tile, metal window guards, bluestone, integral and membrane waterproofing, ornamental iron, iron stairs, bond, kalamein doors, copper skylights, steel sash, tile, marble and terrazzo work, metal lath. Contract awarded to C. J. Smith Const. Co., Trenton, N. J., $60,000. Plumbing, W. J. Lee, 1126 South Broad street, Trenton, N. J., $3,070. Heating, H. H. Martindell, 229 Ardmore avenue, Trenton, N. J., $5,040. Electric, Mercer Elec. Co., Fitzcharles Building, Trenton, N. J., $1,800.

Nurses' Home, Morris Plains, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J.

Brick, steel, 100x72 feet, 2 stories, slate roof, composition floors, metal lath, tile work. Contracts awarded to C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., .$177,673. Plumbing awarded to J. T. Evans, Wilkes-Barre, Pa., $14,218.03. Heating to J. T. Evans, Wilkes-Barre, Pa., $9,995. Electric to Beaver Eng. Co., Newark, N. J., $4,640.

Garage, Clarmont, Mt. Holly, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia, Pa. Owners, Burlington County Road Department, A. Adams, Mt. Holly, N. J. Brick, steel, 1 story and basement, 126x60 feet (plumbing, heating, electric separate), amber shingle roof, cement floors, rolled steel sash. Contract awarded H. B. Miller, Edgewater Park, N. J., $20,844 (No. 1 alternate). Plumbing, Albert Ford, Mt. Holly, N. J., $350. Heating, George Worrell, Mt. Holly, N. J., $4,263. Electric, Janney Elec. Co., Rancocas, N. J., $349.

Borough Hall (alts. and add.), Westville, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, Borough Council, Borough Hall, Westville, N. J. Contract awarded J. D. Lawrence, Westville, N. J., $3,729. Heating, W. J. Bond, Gloucester, N .J., $391.

Fire House, Hamilton Township, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Hamilton Township Commissioners, care of architects. Brick, steel, 2 stories, 40x60 feet, slag roof, concrete floors, steam heat, electric light. Contract awarded to Fred R. Parker, 327 Calhoun street, Trenton, N. J.

Porch (add.), Almshouse, New Lisbon, N. J. Architect, Herbert O. Ziegler, Drexel Building, Philadelphia. Owners, Burlington County Board of Chosen Freeholders, Camden, N. J. Concrete, cement, brick, carpentry, screens, hardware, 2 stories, 96x20 feet, cement, 91x10 feet, tin roof, pine floors. Contract will be awarded to R. S. Herzog, 10 South Eighteenth street, Philadelphia, $2,444.

Nurses' Home, Village for Epileptics, Skillman, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Contracts awarded: Plumbing, Trenton Plumbing & Heating Co. Trenton, N. J., $4,884. Heating, J. T. Evans, Wilkes-Barre, Pa., $2,556.35. Electric, Jackson Electric Co., Trenton, N. J., $2,100.

Doctors' Residence, Village for Epileptics, Skillman, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Contracts awarded: Plumbing, J. T. Evans, Wilkes-Barre, Pa., $2,128.64. Heating, Trenton Plumbing & Heating Co., Trenton, N. J., $2,568. Electric, Jackson Electric Co., Trenton, N. J., $960.

Garages (5), rear of 521 Cooper street, Camden, N. J., $2,800. Architect, private plans. Owners, Harding & Kates, Camden, N. J. Block, 1 story, various sizes, slag roof, cement floors, electric work. Contract awarded to John C. Gibson, 611 Bailey street, Camden, N. J.

Stores (3) (alts.), 523 Cooper street, Camden, N. J., $2,300. Architect, private plans. Owner, Dr. H. G. Longwell, on premises. New brick fronts, 2 stories. Contract awarded to John C. Gibson, 611 Bailey street, Camden, N. J.

Municipal Building, Maple Shade, N. J. Architects, Edwards & Green 548 Federal street, Camden, N. J. Owners, Chester Township, Maple Shade, N. J. Contract awarded H. B. Miller, Edgewater Park, N. J. Plumbing, Roland McMahon, Woodbury, N. J. Electric, Charles Leupold, Camden, N. J. Heating, H. Knecht, West Collingswood, N. J.

Miscellaneous Construction News

Church, Newark, Del. Architects, Bureau of Architecture of Methodist Episcopal Church, 1701 Arch street, Philadelphia. Owners, Methodist Church of Newark, Del. Brick, 2 stories. Plans in progress.

Residence, Wilmington, Del. Architects, Brown & Whiteside, DuPont Building, Wilmington, Del. Owner, name withheld. Brick, 2½ stories, 30x50 feet, hardwood floors, electric light, tile work. Plans in progress.

Residences (3), 800-2-4 West Twenty-ninth street, Wilmington, Del., $18,000. Architect, private plans. Owner, A. Julian, 412 Walnut street, Wilmington, Del. Stone, brick, 20x32 feet, asphalt roof, pine floors, hot water heat, electric light. Permit issued.

Residences (2), Harrison street, Wilmington, Del., $14,000. Architect, private plans. Owners, S. Cantera & Sons, Eighth and Lincoln streets, Wilmington, Del. Brick, 2 stories, 22x35 feet, slate roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Miscellaneous Contracts Awarded

Residence, Wilmington, Del. Architect, E. C. May, DuPont Building, Wilmington, Del. Owner, name withheld. Brick, 2 stories, 22x60 feet, 2 wings, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to Lynch Const. Co., 715 Tatnall street, Wilmington.

Residence, 1406 Riverview street, Wilmington, Del. Architect, private plans. Owner, H. G. Lawson, Wilmington, Del. Brick, 2½ stories, 25x30 feet, slate roof, hardwood floors, hot water heat, electric light. Contract awarded to Smyth Const. Co., Delaware Trust Building Wilmington, Del.

Gas Station, Pennsylvania avenue, Wilmington, Del., $5,000. Architect, private plans. Owners, St. John's River Development Co., Delaware Trust Building, Wilmington, Del. Stone, brick, 1 story, 22x27 feet, composition roof, concrete floors, hot water heat, electric light. Contract awarded to Smyth Const. Co., Delaware Trust Building, Wilmington, Del.

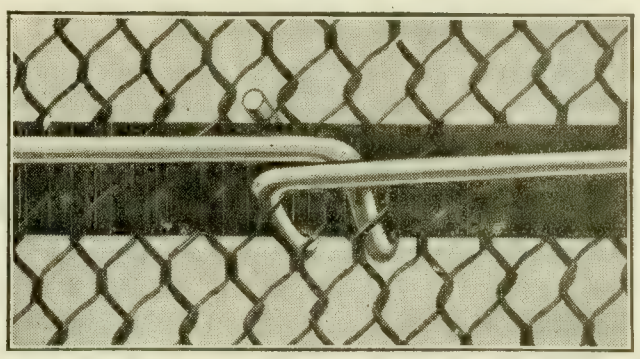
J. P. Hallahan, Builder, formerly of 2313 Walnut street, Philadelphia, has opened new offices at 3116 Market Street, Philadelphia.

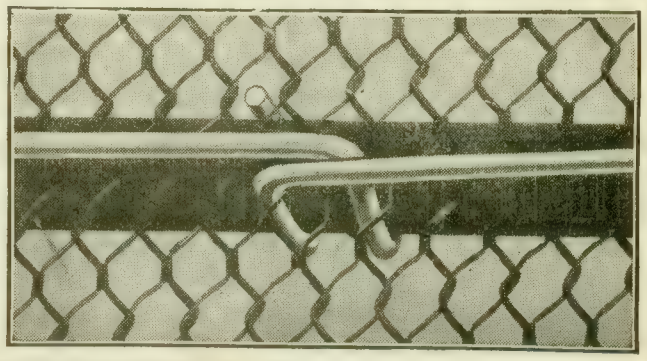
(*Continued from page 744*)

In closing I wish to bespeak the full support of the construction industry and its allied business groups in furthering the work of the American Construction Council. In fact, everybody who pays rent or buys a home or building or other kind of construction, is affected by building conditions and should feel it necessary to support this movement. The idea back of this movement, dealing as it does with the economic problems of the construction industry in its largest sense and their relations to the permanent prosperity of the nation, is one of the biggest conceptions ever inaugurated in modern industry and should, with the safeguards that are provided for its impartial conduct, command the hearty support of forward looking business men.

I make it a rule never to write a grouchy letter—I telephone.

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SEMI-ANNUAL STATEMENT BY AMERICAN CONSTRUCTION COUNCIL

The American Construction Council in its national survey of construction conditions just made reports healthy activity in the building industry generally. The volume of operations points toward as great a total for the present year as for 1925, although there has been a slight seasonal recession and the situation is somewhat spotted in various parts of the country. The amount of work scheduled and contemplated for winter operations is very favorable.

The character of operations is of a much more substantial type than that of the past few years, showing an increased demand for better built and properly financed buildings which the American Construction Council has been advocating so strenuously since the setting in of the building boom in 1922. This is by far the healthiest situation that has existed in the building industry for some years as there has been a very noticeable recession in new speculative building not backed up by adequate values, and a better class of business is coming upon the market.

The slowing down in housing construction further reflects a favorable trend, with an increasing demand for a higher class of apartments and hotels and of suburban homes, the need for which the Council emphasized during the peak period of indiscriminate house building the past few years.

Building operations in general show a larger percentage of structures for commercial and industrial purposes, public buildings and public utilities. There is a better supply of rentable space of good quality.

Material prices and labor are reported fairly well stabilized with no apparent indication of any radical change in the near future. Labor productivity is increasing.

Contracts for engineering construction show a very substantial increase over the first ten months of last year with equally favorable prospects as to proposed work.

Highway construction has been very active, the main obstacle being the lack of stable financing which would permit a continuous road building program in some states. Some of the trunk line railroads report the greatest capital expenitudes on construction for a number of years with a corresponding amount of projected work.

In general the reports favor the probability of well sustained business in all branches of the construction industry for some time to come. Some persons, however, urge caution along all lines of building operations except what is necessary for private use to meet the needs of industry in growing districts, feeling that this will help make for stability of values.

The great need continues for better conceived better financed and better built buildings, accompanied by intelligent city, town, and community planning not only as to building proper but also with regard to traffic conditions and health hazards. The public can now get, and should insist upon getting, full value for every dollar it puts into building. It should also insist upon getting similar values for the money it puts into highway construction, which means that it must demand not only better highways of first class construction but also stabilized highway building programs so as to permit economical construction.

ECONOMICS APPLIED TO THE CONSTRUCTION INDUSTRY

By G. Szmak, *Treasurer, American Institute of Quantity Surveyors.*

While it is true that there is nothing new under the sun, yet during the march of human generations everything is learned, forgotten and re-learned. It is the duty of everyone to investigate, teach and learn the things effecting human welfare in order that the man of today can live as complete a life as the man of yesterday or that of tomorrow, even though the ways and means may be different. All matter and principles forever remain the same. One of the most important conditions having effect upon human welfare is shelter against the elements. The work to provide this shelter is invested in what is probably the greatest single industry of men and women, known as the Construction Industry. This industry is composed of the Construction Designer, Surveyor and the Constructor and only when all three branches are intelligently utilized can the greatest efficiency, economy and durability result. The services and scope of those three absolutely essential branches of the Construction Industry are the subject in the continuation of this article, for the enlightment and guidance of the prospective investor, purchaser or owner of Construction Work.

Whenever we contemplate to erect a structure of any sort whether it is a large commercial building, a factory or a residence, if we act along the lines of proven efficiency the first thing we do is to secure the services of a competent Construction Designer, more generally known as the Architect. We have learned by example manifested through our own occupations that the man engaged in any particular calling is more fitted to be entrusted to do special work than if we were to do the work ourselves unaware of the principles of the work involved. The work of the Architect is to design artistically, economicallly and substantially, through a wise selection of materials and labor to be incorporated in his design, in such ratio as each characteristic may be required by the particular problem in hand. An Architect having fulfilled these requirements has done well his work. To expect him to do more would be to ask things beyond the scope of his profession; for instance, his work does not include the science of measuring and tabulating the quality and quantity of materials and labor required, nor the efficient practical erection of a structure which is within the province of the Construction Surveyor and Builder.

As we study the causes of high cost in materials and production we realize more and more that to erect the designed structure economically it is necessary to enlist the aid of and to know something of the science of Economics. "ECONOMICS IS THE SCIENCE OF CONSERVING THE ENERGY APPLIED TO TRANSFUSION, TRANSMUTATION AND TRANSPORTATION OF PHYSICAL AND SPIRITUAL MATTER."

The first essential principle of engineering is knowledge in the science of measuring and tabulating the intensity and resistance of energy included and the space occupied by physical and spiritual matter; in order to determine the exact extent it shall be necessary to apply or conserve energy in the process of transfusion, transmutation and transportation of the matter involved. The branch of engineering which deals with the intensity of energy—quality and space occupied—quantity of matter used in the erection of architectural and engineering structures is known as Construction Surveying—sometimes called Quantity Surveying among the profession and in some countries where it is practiced under such title. This branch of engineering is fast gaining in importance due to its high economic value in conserving energy—eliminating waste matter. "Construction Surveying is the science of measurement and tabulation applied to the physical members of a structure expressed in uniform units of measurement with an analysis and detailed accounting of its requisite *Quality* and *Quantity* of material and labor applications;" thereby eliminating waste matter in order to obtain the greatest economic result or value compatible with the desired Quality, Quantity and Price to be exchanged under the laws of Fair Competition. Persons engaged in the Construction Surveying profession are known as Construction and Building Surveyors and oftentimes as Quantity Surveyors, however, the former titles are more specific than the latter one and are therefore more generally recognized. The duties of the Construction Surveyor are well indicated by his title and the purpose of his profession is purely one of economics, i. e., the

elimination of waste matter in the process of constructing architectural and engineering structures. It is not within the scope of his profession to design or erect a structure, this work is handled more efficiently by the Architect and Constructor respectively. An experienced Surveyor can furnish information of great economic value to the Architect or his client in the efficient selection of materials and labor because he not only keeps posted on the relative cost of materials and labor but also has exact knowledge of what method in design of any given material will prove to be the most economical to construct deducted from his past experience and analysis of the amount of material and labor required for any particular of various designs. Such information can be had before the design or plans and specifications are even started, although, it is most often through neglect determined after even the construction work has been completed and it is already too late for changes. Construction Surveys can be used on Lump Sum, Cost Plus Percentage, Unit Price or any other form of contract. The survey will in any case perform its economic function. The cost of designing structures is usually from 3 to 10% of its physical value and the fee for the Construction Survey is about 25% of the cost of designing. The amount paid to the Surveyor is saved several times over by the survey through the elimniation of waste.

The Surveyor's fee may be paid by the owner, incorporated within the fees of the Architect or may be specified to be included within the contract of the successful Constructor. The Surveyor may be employed direct by the owner or his representative, the Architect or the Designer. The process of having a Construction or Quantity Survey prepared is simply to secure the services of a Surveyor upon the completion of the plans and specification prior to securing bids from the Constructors or Builders and when ready it is furnished to the bidders along with the plans and specification giving them an absolutely definite instrument of purchase; a complete plan with specific instructions and a survey expressing full intentions of purchase in structural dimensions, physical members in detail showing sizes, types, quality and quantity of materials and workmanship required to produce the desired structure. Construction, Building or Quantity Surveys are now available throughout the United States and also in a number of foreign countries.

The third essential service in the process of erecting a structure is pretty generally known, that of employing a Constructor or Builder; the right selection of which is not so easy as it might seem at first. The work of the Constructor is not to design or to survey a structure, but to construct accurately and substantially. Some of the qualifications that are helpful in making an efficient selection of a Constructor or Builder are as follows:

1. Agreeability to conduct his business under sound and open methods in dealing with his clientele.

2. Knowledge of his personal integrity or that of the organizations with which he is associated.

3. Reputation of competency to correctly execute physically the design of the Architect, i. e., his ability judged by past performance. These same recommendations are applicable also in the proper selection of the Construction Designer and the Construction Surveyor.

OUT OF THE MUD WITH LIME

There are more than two million miles of earth roads in the United States, according to the April, 1926, issue of American Highways, the official publication of the National Association of State Highway Officials. Although most of this mileage is unimproved, these roads feed the paved highways. But if it is impossible for a farmer to get his produce to a paved highway, that highway is of no value to him.

Two problems are involved in earth road construction and maintenance; one to prevent the road from becoming water-soaked and badly rutted—the other to restore it to good condition quickly and easily after a spell of wet weather. A practical and inexpensive solution to these problems has been found in lime treatment.

In 1924 the U. S. Bureau of Public Roads in conjunction with the State Highway departments of Iowa and South Dakota, and the National Lime Association cooperating with the University of Missouri, undertook investigations of the effect of lime in earth roads. The principle of liming heavy soils is not new, having been well established by generations of agricultural practice, but its application to earth road construction and maintenance was not developed until recently.

Tests were made in the field and in the laboratory over a period of two years, and the results are bringing the treatment to the attention of road builders because they indicate the solution of many of the problems which are encountered in sections where hard-surfaced roads can not be financed, or where maintenance must be made easier, quicker and more economical.

A highway system grows, developing from trails and earth roads, which are improved with various types of surface as circumstances warrant. There is a big difference between the cost of an earth road and the cost of a good gravel road, and frequently the gravel improvement is postponed because of its high cost, thus leaving the farmer with unimproved roads. An earth road treated with lime is much better than an untreated road, and will serve as an excellent foundation for gravel when increasing traffic makes that step necessary. In the meantime it is a good, serviceable road, and carries the traffic without excessive maintenance.

An earth road must be in reasonably good condition before it can be surfaced, and the lime can be added with a minimum of extra work while the road is being graded. In this way the cost of lime treatment is reduced to practically the cost of the lime alone. When treated with lime, the road will be found so satisfactory that additional expenditures for surfacing may be deferred. The lime-treated road will provide a suitable foundation for any further improvement that may be added at a later date.

Lime Prevents Rutting

When hydrated lime is mixed with the top layer of soil in the road, the soil loses its stickiness and does not cling to the wheels of vehicles. Because the wheels do not pick up the mud, the road remains smooth and excess water drains off before it has a chance to soak in. At the same time, the lime serves to stabilize the soil, so that wheels do not sink in when the road is wet. The road remains smooth and firm and is free from ruts during weather which would make an untreated road almost impassible.

The lime treatment produces a more porous, granular structure in the soil which permits more rapid movement and distribution of moisture, and prevents the surface from becoming soggy and unable to carry load. The soil structure is so open that the surface dries quickly and the treated road may be dragged many hours ahead of an untreated road.

Method of Treatment

The method employed will vary somewhat with the soil, the moisture conditions, and the tools available. If the soil is a heavy clay, the road should be dry when the work is started. It is best to plow the roadway to a depth of six inches, breaking about two inches at a time to avoid turning out large clods, using a brush plow, a rooter, or a sacrificer. Where a sacrificer on a light maintenance machine is used it has been found advantageous to move the loosened soil to one side with the blade after each trip. The loose soil is then broken up as fine as possible with a disc before the lime is spread.

Sacks of lime are distributed along the road and so spaced as to give the proper amount of lime per square yard. The lime is spread in a uniform layer and thoroughly disced into the loose soil. If the treatment is more than three inches

deep it will be necessary to turn over the loose soil with a plow during the discing in order to mix the lime and soil thoroughly to the full depth of the treatment.

Amount of Lime Required

The amount of lime required depends upon the type of soil. For instance, a heavy clay in Ohio reached its greatest stability with an addition of 2.8 per cent. of lime, while a clay from Central Missouri reached its maximum stability with 3.6 per cent. In pounds per square yard for a depth of six inches this is equivalent to 12.6 pounds and 16.2 pounds of lime per square yard, respectively. In estimating, the soil in place may be taken at 100 pounds of dry material per cubic foot.

TABLE I

Depth of Treatment	Pounds of Lime per Sq. Yd.			
	2.5%	3.0%	3.5%	4.0%
2″	3.75	4.50	5.25	6.00
3″	5.63	6.75	7.87	9.00
4″	7.50	9.00	10.50	12.00
5″	9.37	11.25	13.12	15.00
6″	11.25	13.50	15.75	18.00

TABLE II

Width of Road in Feet	Square Yards of Surface per Mile
12	7,040
14	8,213
16	9,387
18	10,560
20	11,733
24	14,080
30	17,600

Field practice indicates that less than 2.5 per cent. of lime is insufficient, while more than about 4 per cent. is unnecessary. With most of the troublesome clay soils an addition of 3.5 per cent. will be most effective, while for silty soils 2.75 per cent. will produce the desired results. For a six-inch treatment, this is equivalent to about 16 pounds of lime per square yard for clays, and 12.5 pounds per square yard for silt loams. There is no economy in treatments less than three inches in depth, and six inches has been found most satisfactory. Treatments of still greater depth are increasingly more effective, but require deep tillage machinery.

Lime Treatment is Durable

One of the sections of road treated with lime by the Engineering Experiment Station of the University of Missouri in 1924 was located in the Missouri River bottoms near Jefferson City. In the fall of 1925 this road was widened ten feet along one side and a heavy layer of the fresh black clay from the bank was spread over the treated section. About the time this was completed, and while the surface was still loose, the fall rains set in and the road became thoroughly saturated. Deep ruts resulted and the entire road was almost impassible until the summer of 1926. When the road finally began to dry, the only part which became smooth and firm was that part under which the lime treated soil lay.

An example of the other extreme of soil type is found in Mills County, Iowa. This type is technically known as Loess, a soil of low clay, but high silt content. A road in this county was treated in 1924 and has not had a rut in it since the treatment. In this soil 2.75 per cent. of lime was found sufficient to give good results. The treated road is holding up in perfect condition under traffic which averages more than 1,000 vehicles per day. The soil is firm and granular, and can be dragged from five to ten hours sooner than the untreated road.

T. E. Martin, County Engineer of Mills County, Iowa, who has had one of the experimental roads under close observation for over two years, states under date of September 18, 1926: "In regard to the experimental road east of Glenwood, will state that it is in fine condition although we have had a rainy Fall. This part of the road dries quick and does not rut deep, making the maintenance light."

Many Uses

In addition to its use in improving earth roads, lime can be used to stabilize the soil on roads which are to receive a thin layer of gravel or other wearing surface. Regardless of the type of surface which is to be put on the road, it is necessary to have the subgrade, or earth base, in such structural condition that the soil is stable. The stable subgrade will prevent many cracks and waves in the wearing surface.

In many localities the greatest expense in maintaining gravel roads comes through the sinking of the gravel into the plastic soil beneath and this loss requires resurfacing of the road at frequent intervals. When the road is treated with lime the structure of the soil is changed so as to increase its bearing power and keep it uniform under all weather conditions. The soil will no longer work up through the gravel and change the surface back to an earth road as may be the case when the lime treatment is not used.

The Highway Department of the University of Illinois has treated sections of black earth roads with lime before applying road oil, to stabilize the soil and at the same time prevent the formation of the troublesome emulsion which frequently forms beneath the oil mat.

For many years contractors have used hydrated lime to "dry up" mud holes around construction jobs. Where a soft spot develops, a few sacks of lime are spread, the trucks soon working it into the soil sufficiently to correct the trouble.

Farmers find lime treatment an ideal method for improving private lanes and for drying up barn lots and the earth floors in their stables. The lime corrects acidity, improves drainage, and makes a clean, firm, resilient floor, free from objectionable odors.

The rapid growth of commercial aviation has stimulated the construction of landing fields all over the country. Usually a considerable amount of grading must be done to level the field properly. This reduces the stickiness of the soil, preventing it from being picked up by the landing wheels and thrown into the propeller, thus reducing propeller breakage. As the surface of the field remains smooth, the sod will form normally as it is not torn up by the wheels. At the same time, the lime corrects acidity of the soil and encourages the growth of grass.

Major John Berry, Manager of the Cleveland Airport, writes under date of September 21, 1926: "I have delayed going on record as to the results obtained from this treatment because of the fact that I felt rather dubious about being able to speak as favorably as I should have liked to. However, I would now unequivocally state that the results obtained after nine days rain, are all that even your optimistic forecast predicted they would be."

All live men are advertisers, and the only man who should not advertise is the man who has nothing to offer to the world in the way of human service, and such a man is a dead one, whether he knows it or not Advertising is a legitimate and ethical proposition. Life is too short for you to hide yourself away, mantled in your modesty, and let the world hunt you out. Even the dead are advertisers, for on visiting a beautiful cemetery the other day, I noticed that on nearly every marble slab was given a list of the virtues, talents and beautiful qualities which the dead man was supposed to have carried in stock. This is what you call non-productive advertising or advertising from an emotional stand point.—Elbert Hubbard.

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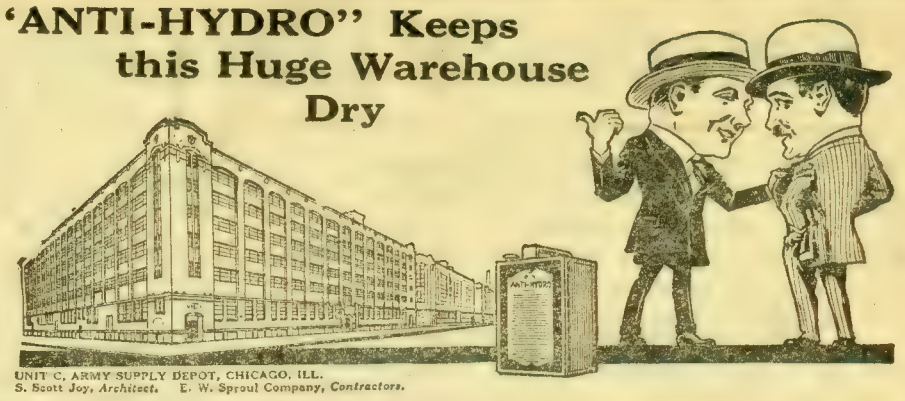
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Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 48
December 1, 1926

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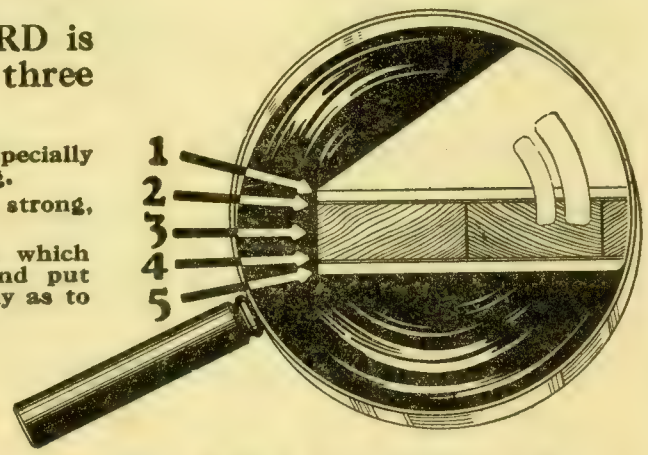
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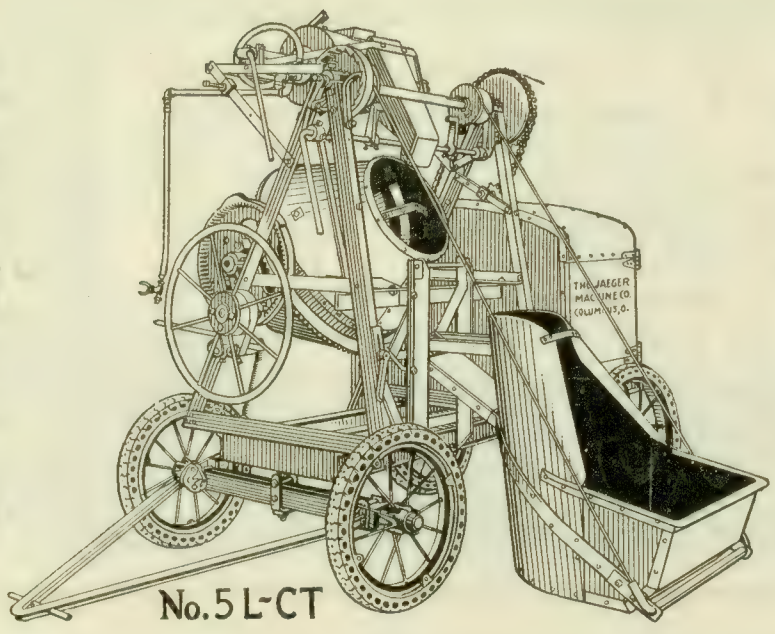
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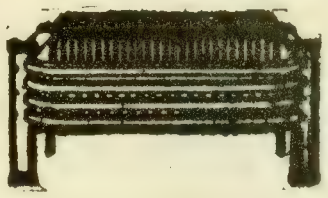
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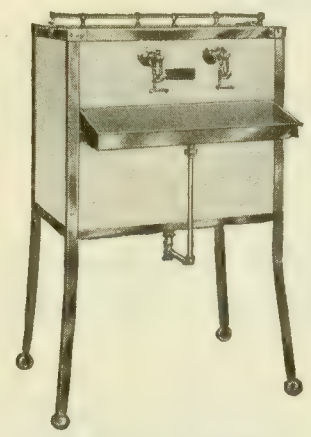
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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 48

PHILADELPHIA
December 1, 1926

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As The Editor Sees It

THE FALLACY OF UNNECESSARY STRENGTH

Excessive and unnecessary strength in the use of mortar in the tremendous building program througout the country during the present year has cost the nation millions of dollars that might have been expended in new and needed structures, according to an extensive survey of the construction field by the National Lime Association (and discussed in detail) in a bulletin entitled "The Fallacy of Unnecessary Strength." This waste and extravagance is influencing the slackening of building operations; is retarding the building program and, in a broad sense, has its effect upon the general prosperity of the nation, it is asserted in the bulletin, which adds:

There is no place where the fallacy of unnecessary strength runs to more foolish extremes than in mortar. Certain materials have been promoted so vigorously on the score of their high strength, usually known by laboratory test only, that many builders have slipped into the mistaken idea that maximum strength is the only consideration. Field tests, or even laboratory tests of large specimens are usually lacking, and the lessons of generations of practical experience forgotten in the glamor of superlative strength claims. Also, the cost is usually in line with the claimed laboratory strengths.

During 1924 there were 7,844,363,000 bricks used in the United States. It is safe to assume that during 1926 there will be at least 8,500,000,000 used. In common bond these bricks require 4,725,000,000 cubic yards of mortar. A fair average price for the materials in a cubic ward of 1:3 mortar is $9.40 if Portland cement plus 10 per cent of lime is used, $7 with a 1:1:6 lime-cement mortar, $7.25 if bricklayers' cement is used, and only about $4.75 if lime is used. It costs as much to mix one kind of mortar as it does another, so that cost of materials makes a fair comparison. There are cases where the higher strength obtained by adding some Portland cement to lime mortar is necessary, but these cases would hardly total 25 per cent. If 75 per cent of these 8,500,000,000 bricks made this year are used for the general run of building, and are laid in lime mortar, the saving follows:

	1:1:6 Lime-Cement	Bricklayers' Cement	Cement plus 10% Lime
Cost of mortar for laying 75 per cent ...	$24,806,300	$25,692,200	$33,312,300
Cost of 75 per cent in lime	16,832,800	16,832,800	16,832,860
Saving if straight lime mortar is used	7,973,500	8,859,400	16,479,560

This saving alone would be enough to build from 1,600 to 3,300 homes costing $5,000 each year—and the country needs the additional homes far more than the wasted strength in other structures. In addition to the saving in cost of materials, there is a saving in time by the use of lime mortar, for the number of bricks a man can lay is governed on the job by the workability of the mortar. According to Dingman's "Estimating Building Costs" (1923), the average workman can lay 1,400 bricks per 8-hour day in a 12-inch wall (common bond) when he is using lime mortar, but only 1,200 when he uses a cement mortar. Using the same figures as before, the time required would be:

Cement mortars.....531,250 days
Lime Mortar .....455,360 days

(Continued on page 772)

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BUILDING PERMITS

During October, 1926, permits were granted for the construction of 2,166 new buildings at a total estimated cost of $18,280,34, and for additions, alterations, or repairs to 1,534 buildings at a cost of $2,106,104, according to reports submitted to the Department of Labor and Industry from 42 cities and boroughs. The average individual building cost reported in October is 18 per cent. higher than the average individual building cost reported during any of the preceding 9 months. Since costs of building mate-

(Continued on page 770)

ESTIMATED VALUE OF BUILDING PERMITS ISSUED IN CITIES AND BOROUGHS IN PENNSYLVANIA DURING THE MONTH OF OCTOBER

City or Borough	1926 Number of Buildings	1926 Estimated Cost	1925 Number of Buildings	1925 Estimated Cost
Allentown	167	$ 2,641,825	142	$ 817,300
Altoona	129	225,374	139	279,322
Ambridge Borough*	26	73,200	..	..
Berwick Borough*	11	4,850	..	..
Bethlehem	64	149,091	56	2,614,775
Bradford	22	23,365	35	116,565
Bristol Borough*	9	15,100	..	..
Carlisle Borough*	16	18,760	..	..
Garrick Borough*	28	88,280	..	..
Clairton*	43	37,805	..	..
Coatesville*	13	86,700	..	..
Connellsville*	13	6,325	..	..
Donora Borough*	5	27,000	..	..
Duquesne*	71	25,699	..	..
Easton	34	134,210	37	208,380
Erie	192	331,174	211	681,482
Harrisburg	92	279,400	77	192,475
Hazleton*	23	133,614	..	..
Homestead Borough*	12	73,700	..	..
Jeannette Borough*	7	21,850	..	..
Johnstown*	74	164,305	..	..
Lancaster	62	136,935	104	409,355
McKees Rock Borough*	8	18,850	..	..
Meadville	18	22,335	14	42,715
Monessen*	11	28,650	..	..
Monongahela*	8	9,875	..	..
New Castle	78	145,205	85	162,485
Oil City	47	15,190	41	29,460
Philadelphia	1,550	8,362,595	1,767	12,789,790
Pittsburgh	722	7,091,977	726	2,809,268
Pottsville*	31	376,400	..	..
Reading	232	295,275	269	1,388,525
Scranton	154	281,416	143	652,540
Shamokin Borough*	16	58,987	..	..
Sunbury*	14	9,590	..	..
Uniontown	28	126,700	14	49,255
Warren Borough	13	28,457	11	82,875
Washington*	14	20,735	..	..
Wilkes-Barre	122	161,478	152	458,605
Wilkinsburg*	32	159,025	..	..
Williamsport	72	136,617	77	115,565
York	56	79,257	84	740,326
Total	4,399	$22,127,194	4,184	$24,641,063
Comparative Total	3,854	$20,667,894	4,184	$24,641,063

*Not included in Comparative Totals

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Studio, Walnut street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owners, McClelland Studio, Inc., care of architect. Brick, stone, steel, limestone, 3 stories. Plans in progress.

Residence and Garage (alts.), 2037 Ritner street, Philadelphia. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, name withheld. General alterations and additions. Plans in progress.

Elementary School, St. Vincent and Hawthorne streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, 3 stories. Plans in progress.

Residences and Garages (3), Thirteenth and Medary avenue, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Philip Robin, 4745 North Twelfth street, Philadelphia. Brick, 3 stories, 16x42 feet, garages, 1 story, 20x20 feet, slag, tin, concrete, tile roof, hardwood floors, cement work, hot water heat, electric light, tile and marble work, plumbing. Plans completed. Owner ready for sub-bids.

Residence and Store (alts. and add.), Southwest Corner Price and Knox streets. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, name withhheld. Brick, 2-story add., 26x14 feet, 16x14 feet, carpentry and mill work, electric light ,hot water heat, pine floors, plate glass, flush bulks. Architect will take bids in about two weeks.

Residence (remodeling), 602 Spruce street, Philadelphia. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, Julius Wolfson, care of architect. Brick, 4 stories, 18x75 feet, hot water heat, new slag roof, hardwood floors, partitions, plumbing, tile and marble work, oil burner, plastering, painting and glazing. New garage on Cypress street, brick, 1 story, 18x20 feet, slag roof, cement floor. Architect will be ready for bids in 10 days.

Building, 120-22 North Seventh street, Philadelphia. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owners, Southern Bookbinding Co., on premises. Brick steel, concrete, 8 stories and basement, 34x70 feet, slag roof, cement floors, elevators, steam heat, electric light. Plans about completed. Architect ready for bids in a few days.

Building (remodeling and add.), Tioga and Ontario streets, Philadelphia. Architect, E. A. Roth, Drexel Building, Philadelphia. Owner, Charles Wexman, care of architect. New third floor, changing residence into 9 apartments and one store, hot water heat, tile and marble work, new partitions, oil burner, plastering, painting, plumbing, plate glass, flush bulks. Plans about completed. Will be ready for bids in a few days.

School (add.), Penn and Church streets, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Joachim's Parish, Rev. J. B. Dever, on premises. Stone, brick, cut stone, granite, steel, 3 seories and basement, 121x60 feet (plumbing, heating, electric reserved), slate roof, cement and maple floors, hollow tile, metal weather strip, shoring, waterproofing, meta llath, tile, marble and terrazzo work, kalamein and hollow metal doors, bond, iron stairs, ornamental iron work, metal toilet partitions, limestone. Architects taking bids due December 6th.

School, L and Luzerne streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due December 7th at noon.

Various Schools, general repairs, plumbing, electric, heating, ventilating, electric gongs, etc., demolition, repairs and painting roof, moving picture machine. Owners taking bids due December 7th.

Garage, 1811-15 Fitzwater street, Philadelphia. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, A. Poall, 1812 Fitzwater street, Philadelphia. Brick, 2 stories, 43x138 feet, slag roof, cement and plank floors, elevators, steam heat, electric light, rolled steel sash and hollow metal skylights. Owner taking bids due December 4th.

Theatre, Ridge and Leverington avenue, Roxborough, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owner, Abraham Felt, Packard Building, Philadelphia. Brick, steel, concrete, limestone, steam heat, electric light, tile and marble work, concrete floors. Plans about completed. Ready for bids in a week.

Residences (60), Pennway street, Philadelphia. Architect, Engineer M. M. Boonin, 23 South Sixteenth street, Philadelphia. Owner, Harry J. Altman, Lincoln Building, Philadelphia. Brick, 2 stories, 16x30 feet, 12x10 feet, slag roof, pine and oak floors, hot water heat, electric light, iron stairs. Owner taking sub-bids due as soon as possible.

Alterations, Northeast Corner Sixth and Lombard streets, Philadelphia. Architect, Engineer M. M. Boonin, 23 South Sixteenth street, Philadelphia. Owner, B. Reibostein, Sixth and Lombard street, Philadelphia. Brick and new store front, 1 story, 16x20 feet, slag roof, pine floors. Owner taking bids due as soon as possible.

Residence (add. and alts.), 238 North Fifty-second street, Philadelphia, $4,000. Architect, private plans. Owner, James A. Shea, 1748 North Sixty-first street, Philadelphia. Brick, 2 stories add., 16 feet 6 inches x 13 feet, general alterations. Permit issued.

Sub-Stations, Nos. 4 and 5, Louden and Carlisle streets, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Brick, steel ,cut stone, granite, 1 story and basement, 89x73 feet. Cumberland and Park, 85x65 feet, slag roof, cement floors, roof ventilators, dampproofing, architectural terra cotta, bond, marble work, rolled steel sash, bluestone, area gratings, limestone, steel partitions. Low bidders: Evans-Steele, 2217 Chestnut street, Philadelphia, No 4, $142,976; No. 5, $134,976. F. K. Worley Const. Co., Wesley Building, Philadelphia, No. 4, $160,506; No. 5, $148,554.

Porch (alts), United States Naval Home, Twenty-fourth and Gray's Ferry, Philadelphia. Owners, United States Government, Quartermaster's Department, Philadelphia. Low bidders: McCormick-Lenham Co., Broad and Tasker streets, Philadelphia, $785.

Department of Public Works, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Contract No .856, filter ramps for various plants. Contract No. 857, hot water heat system for Torresdale High Service Station. Contract No. 858, plumbing for Torresdale High Service Station. Certified check, 5 per cent. Owner taking bids due December 7th at noon.

Steam Plant, Northeast Corner Ninth and Willow streets, Philadelphia, $600,000. Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. Brick, 2 stories, 84 feet 5 inches x 94 feet 4 inches. Permit issued.

Residences (6), Sixty-fourth street, North of Dickens avenue, Philadelphia, $27,500. Architect, private plans. Owners, Holden & Sklar, Fifty-seventh and Florence avenue, Philadelphia. Brick, 2 stories, 15x26 feet, 11x9 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Shop and Storage Building, South side Penrose Ferry road, West of Gallows lane, Philadelphia, $10,000. Owners, Gulf Refining Co., 1515 Locust street, Philadelphia. Brick, 2 stories, 60x60 feet. Permit issued.

Apartment Houses (4), Garage (1), Fifty-eighth street, South of Overbrook avenue, $200,000. Architect, private plans. Owners, Overbrook Const. Co., 1314 Franklin Trust Building, Philadelphia. Brick, 2 stories, 70x116 feet each, steam heat, electric light, slag roof, hardwood and pine floors, garage, brick, 1 story, 65x100 feet, cement floors. Permit issued .

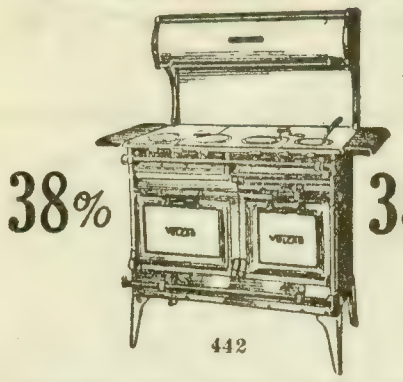
Garage, 199 Ferry road, Philadelphia, $2,000. Architect, private plans. Owner, Fergus Peel, 4121 Ridge avenue, Philadelphia. Brick, 1 story, 18x100 feet, slag roof, cement floors, electric light. Permit issued.

Miscellaneous Work, Philadelphia. Low bidders. Owners, Department of Public Works,

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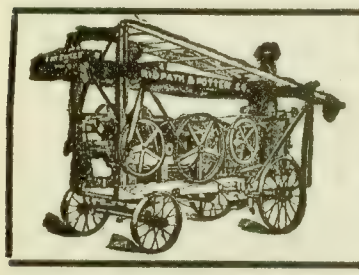
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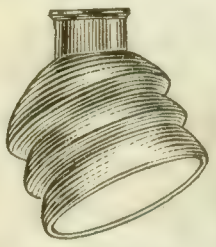
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Bureau of Highways, City Hall. Sewer Work—Comly, Oakland to Roosevelt Boulevard, A. Matteo, 748 South Tenth street, Philadelphia, $9,249. Island avenue, Elmwood to Buist avenue, Savatine & Bolozna, 1720 South Chadwick street, Philadelphia, $2,958.95. Stiles street, Buckius street to Wakeling street, F. De Pasquale, care of owners, $3,853.50. Sixth street, Godfrey to Summit South, F. Buckius, Kensington and Deal street, Philadelphia, $1,415.80. Bifflin street, Twenty-eighth to Twenty-sixth street, Philadelphia, Garifola & Beradi, 517 Tioga street, Philadelphia, $29,240.50. Eighteenth street and Wagner avenue, Garafola & Berddi, 517 Tioga avenue, Philadelphia, $13,893.50. G street and Luzerne street, A. De Sandro, 3906 North Fifth street, Philadelphia, $21,428.85. Frankford avenue, Longshore to Welsh road, F. T. Buckius, Jr., Kensington and Deal street, $35,806.50. Hellerman street and Marsden street, Duffin Brothers, 1623 East Lycoming street, Philadelphia, $6,503.05. South O street, Bristol to Cayuga, Duffin Brothers, 1623 East Lycoming street, Philadelphia, $1,169.86. Island avenue, Elmwood to Buist avenue, W. H. Riddle, Commonwealth Building, Philadelphia, $3,073.30.

Asphalt Paving—Ashford avenue and Seventy-fourth street, Eastern Paving Co., Pennsylvania Building, $19,241.67; Mack Paving Co., Nicetown lane and C street, $9,157.90. Cheltenham avenue, Bustleton to Roosevelt, Barber Asphalt Co., 1600 Arch street, Philadelphia, $56,489.16. Crispen street, Wellington to St. Vincent street, Barber Asphalt Co., 1600 Arch street, Philadelphia, $4,272.28. Sedgwick, Wayne to Henly, Union Paving Co., Thirtieth and Locust streets, $3,081.10. Sixty-sixth, Elmwood to P. B. & W. R. R., Union Paving Co., Thirtieth and Locust streets, Philadelphia ,$13,674.43. Ninth street, South of Jefferson, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $5,676.50.

Dedressed Granite Block Repaving, Gray's Ferry avenue, C. C. Centrone, 522 North Sixty-fifth street, Philadelphia, $4,222.50. Third street, Walnut street to South street, F. A. Canuso & Son, 804 South Twelfth street, Philadelphia, $24,147.50.

Country Road Improvement, D street, Erie avenue, M. Leewright, Manayunk, Philadelphia, $2,950. Eden street, Frankford to Lein street, John Devlin, Hancock and Thompson streets, $5,081.60. Erwig avenue, C. G. Centrone, 522 North Sixty-fifth street, Philadelphia, $7,616; C. G. Centrone, 522 North Sixty-fifth street, Philadelphia, $3,567.15. Park avenue, Sixty-fifth to Sixty-sixth avenue, C. G. Centrone, 522 North Sixty-fifth street, Philadelphia, $2,244.

Apartment House, 3242 North Seventeenth street, Philadelphia. $160,000. Architect, private plans. Owner, Joseph Lupowitz, 324 W. Rooseelt Blvd., Philadelphia. Brick, 4 stories, 60x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light, tile work. Permit issued.

Residences (12), South side Van Kirk St., East of Hegerman street, $49,000. Architect, private plans. Owner, Henry Hofmaier, 7342 Dorcas street, Philadelphia. Brick, 2 stories, 15x29 feet, 8x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residence, 7525 Lawndale Avenue, Philadelphia, $3500. Architect, private plans. Owner, Joseph Ovarz, 7527 Lawndale Ave., Philadelphia. Brick, 2 stories, 15x39 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residence, Alts and Add. to Apartments, 3512 Hamilton street, Philadelphia. Architect, Francis P. Canavan, 7032 Greenway avenue, Philadelphia. Owner, W. H. Given, on premises. Brick, 3 stories, changing partitions, slate roof, hardwood floors, hot water heat, tile work. Plans completed. Owner ready for bids.

Just remember this: Give out courtesy, kindness, patience and good-will, and you'll get them all back with compound interest. The men who deserve to rank in Class A do not chew the lint and fuss about the small misfits of life. To take what comes and forget the rest is wisdom. Let Braggo give the janitor the call, and the Hall Boys have it out with the Ashbox Inspector—you can't afford to soil your soil with small scraps. Fight on a big scale, or not at all. The folks who have trouble with ushers are always looking for trouble—and find it. Smile, old boy, smile!

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store (5c and 10c), 1640 Ridge Avenue, Philadelphia. Architect, Harold Holmes, Detroit, Mich. Owner, S. S. Kresge, Detroit, Mich. Brick, cut stone, steel, granite, 2 stories and basement 96x40 feet, slag roof, maple and cement floors, elevators, metal ceilings, waterproofing, steam heat, electric light, metal lath, tile work, hollow metal sash, tin clad and hollow metal doors, metal partitions, metal store fronts, sprinklers. Contract awarded Curtis Grindrod Co., 10 S. Eighteenth street, Philadelphia.

Residence and Store (add.), 5216-18 N. 5th street, Philadelphia,. $7500. Architect, private plans. Owners, Garland and Merz, on premises. Brick, 1 story addition, 32x36 feet. Contract awarded to Northern Const. Co., 5302 N. Fifteenth street.

Residence (alts.), 643 North Fifteenth St., Philadelphia, $5,000. Architect, private plans. Owners, Y. W. C. A., 20 South Fifteenth street, Philadelphia General alterations. Contract awarded to Frank E. Wallace, 337 S. Camac strtet, Philadelphia.

Garage, 5823 Jackson street, Philadelphia. $2,000. Architect, private plans. Owner, M. Kramer, on premises. Brick, 1 story, 16x74 feet, slag roof, cement floors. Contract awarded to Lewis Ulmer, 5113 Melrose street, Philadelphia.

Sales Building, Northwest Corner Hunting Park avenue and Kensington avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Pep Auto Supply Co., Broad and Vine streets, Philadelphia. Brick, cut stone, reinforced concrete, limestone, 1 story and basement, 148x35 feet, slag roof, composition and pine floors, hollow tile, steam heat, electric light, metal lath, tile work, rolled steel sash, tin clad doors, metal bulks, ornamental iron work, sprinkler system, metal partitions, Harnak waterproofing ,ornamental terra cotta, metal ceilings. Contract awarded Bowden Const. Co., 1607 Summer street, Philadelphia.

Antitoxin Barn, Second and Luzerne streets, Philadelphia, $42,800. Architect, P. H. Johnson, Widener Building, Philadelphia. Owners, Dept. of Public Health, City Hall, Phila. Brick, cinder concrete block, 1 story, 40x195 feet (plumbing, heating and electric separate), slate roof, cement floors, waterproofing and dampproofing, ornamental iron work. Contract awarded Robbins Cont. Co., 1137 North Front street, Philadelphia. Plumbing, N. Connolly, 1404 North Eighteenth street, Philadelphia, $11,602. Heating, N. Connolly, 1404 North Eighteenth street, Philadelphia, $6,306. Electric, Ross Electric Const. Co., 106 Fairmount avenue, $3,988. Machinery, American Laundry Mach. Co., 3846 Lancaster avenue, Philadelphia, $12,000.

Store, 938 Market street, Philadelphia. Architect, Le Roy B. Rothschild, 215 South Broad street, Philadelphia. Owner, J. Langman, care of architect. New store front and interior alterations. Contract awarded Murphy-Quigley Co., 1518 Sansom street, Philadelphia.

Garage (alts. and add.), 1025 Mifflin street, Philadelphia, $10,000. Architect, J. S. Fuller, 5438 Locust street, Philadelphia. Owner, Julius Hemmelstein, on premises. Brick, 1 story, 30x104 feet, slag roof, cement floors, electric. Contract awarded Harry Goldberg, 2419 South Fairhill street, Philadelphia.

Residences (20), East side Walnut lane, West of Seventy-third street, $84,800. Architect, private plans. Owner, John M. Dager, 4104 North Fifth street, Philadelphia. Brick, 2 stories, 15x34 feet, 11x7 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Anthony Sabia, 4104 North Fifth street, Philadelphia.

Residence (add .and alts.), 5100 Wayne avenue, Philadelphia, $12,000. Architect, private plans. Owner, Charles Schaffer, 5100 Wayne avenue, Philadelphia. Brick, 1 story add., 23x23 feet, general alterations. Contract awarded to John Roman, 414 East Bringhurst street, Philadelphia.

Residence (add .and alts.), 218 South Forty-second street, Philadelphia, $8,500. Architect, private plans. Owner, H. Armstrong Roberts, 227 South Mellville street, Philadelphia. Brick, 2 stories add., 37x21 feet, general alterations. Contract awarded to J. H. Hutt, 5920 Dakota street, Philadelphia.

Residence (add,) 6717 North Sixth street, Philadelphia, $2,800. Architect, private plans. Owner, F. R. Scattergood, on premises. Rear add., 2 stories, 14x10 feet. Contract awarded to Ridgway & Tomlinson, 1701 West Venango street.

Shop (add.), 437 West Berks street, Philadelphia, $2,500. Architect, private plans. Owner, Julius Bernheim, 437 Berks street, Philadelphia. Brick, 1 story add., 14 feet 4 inches x 22 feet. Contract awarded to Albert Dunlap, 16 Evergreen road, Philadelphia.

Shop, 3036 Richmond street, Philadelphia, $4,300. Architect, private plans. Owner, Joseph Kryger, 3132 Richmond street, Philadelphia. Brick, 2 stories, 18x56 feet. Contract awarded to Stanislaus Ozga, 3370 Salmon street, Philadelphia.

Store (alts), 227 South Broad street, Philadelphia, $2,500. Architect, private plans. Owners, Smiler Brothers, 1007 Market street, Philadelphia. General alterations. Contract award-

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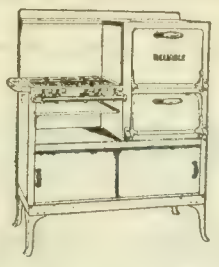
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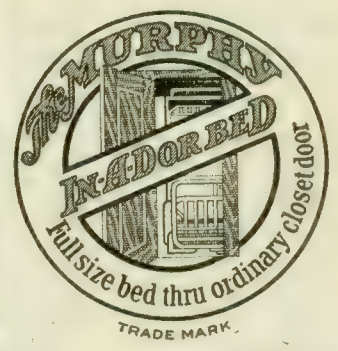
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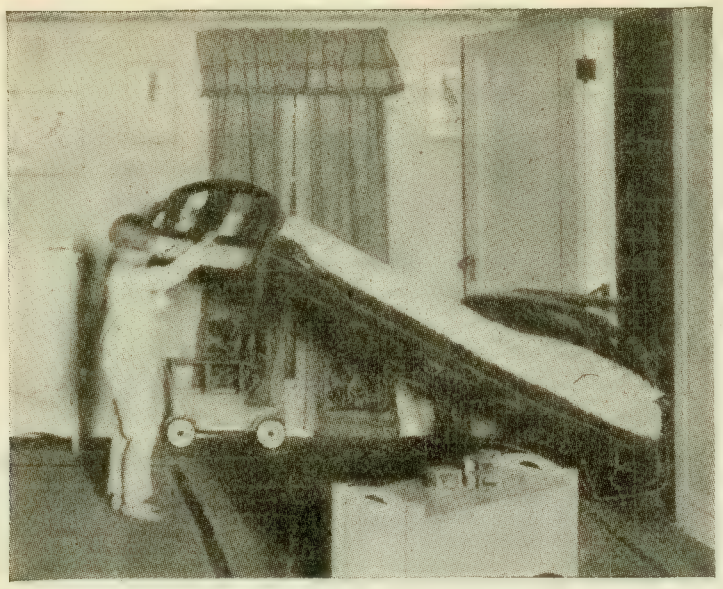
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ed to S. Yellin & Son, 222 North Eleventh street, Philadelphia.

Rest Room (add.), Forty-third street, South of Woodland avenue, Philadelphia, $2,000. Architect, private plans. Owners, Breyer Ice Cream Co., on premises. Brick, 1 story add., 17x55 feet. Contract awarded to William F. Koelle & Co., 2601 Oxford street, Philadelphia.

Garage, 2608-10-12-14 West Dauphin street, Philadelphia, $19,000. Architect, private plans. Owners, Aetna Realty Co., 415 North Forty-first street, Philadelphia. Brick, 1 story, 14x87 feet, slag roof, cement floors, electric work. Contract awarded to Harry G. Walters, 412 North Fortieth street, Philadelphia.

Store and Residence (add.), 6145-47 Ogontz avenue, Philadelphia, $4,000. Architect, private plans. Owners, Keystone Real Estate Co., 2627 South Sixth street, Philadelphia. Brick, 1 story add., 16x18 feet. Contract awarded to Myer-Kunzinsky, 2627 South Sixteenth street, Philadelphia.

Residence (add.), 4212 North Fifteenth street, Philadelphia, $2,000. Architect, private plans. Owner, Peter Brywski, on premises. Brick, 1 story add., 15x37 feet 6 inches. Contract awarded to Frank Radowski, 4329 North Sixteenth street, Philadelphia.

Garage, 1136-38-40 East Passyunk avenue, Philadelphia, $15,000. Architect, private plans. Owner, Mrs. A. Andrews, 1162 South Tenth street, Philadelphia. Brick, 2 stories, 46x70 feet, slag roof, cement floors, electric work. Contract awarded to George Andrews, 1162 South Tenth street, Philadelphia.

Storage Building, 1416-18 East Oxford street, Philadelphia, $5,000. Architect, private plans. Owner, Oliver M. Kerr, 1328 Washington lane, Philadelphia. Brick, 1 story, 32x82 feet. Contract awarded to Howard Rowen, 1232 East Columbia avenue, Philadelphia.

Shop (add.), Southwest Corner Comly and Algon streets, Philadelphia, $2,200. Architect, private plans. Owner, John Hagen, on premises. Brick, 1 story add., 26x84 feet. Contract awarded to F .W. Dietrich, Frankford avenue and Devereaux street, Philadelphia.

Pennsylvania Construction News

Residences (20), Tenth and Union streets, Darby, Pa. Architect, Bailey and Bassett, 241 Chestnut street, Philadelphia. Owner, Whittier Center Housing Company, Darby, Pa. Brick, 2 stories 16x0 feet, slag roof, oak and pine floors, plumbing, electric light, iron work. Architect taking bids due Dec. 6th.

Church School and Convent, Bridgeport, Pa. Architect not yet selected. Owner, Our Mother of Sorrows Solvak Church, Rev. J. Thomko, Bridgeport, Pa. Work contemplated in one year. Selection of Architect in spring of 1927.

Passenger Station and Freight House, Northbound Waiting Room, Souderton, Pa. Owner, Reading Railroad Company, Twelfth and Market streets, Philadelphia. Architect, Samuel T. Wagner, Twelfth and Market Sts., Philadelphia. Brick, stucco, cut stone, steel, 1 story, 25x60 feet, 12x30 feet, Freight House 20x40 feet, slate roof, pine floors, hot water heat, electric light, bond, ornamental iron work, plumbing. Owner taking bids due Dec. 10th.

Science Building, Dormitories, Hall of Music, Power Plant, Gymnasium, Infirmary, addition to Sewage Disposal Plant, Collegeville, Pa. Architect, Frank R. Watson, 1211 Walnut Street, Philadelphia. Owner, Ursinus College, H. E. Paisley, President of Building Comm., Reading Terminal Building, Philadelphia. Working plans in progress. Will soon take bids.

Garage, Swarthmore, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Otto Kraus, Jr., Liberty Building, Philadelphia. Stone, brick, 1 story, 20x24 feet, slate roof, cement floors, electric light. Plans in progress.

Junior High School, Norristown, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Norristown, C. I. Moore, Norristown, Pa. Plans in progress.

City Hall, Norristown, Pa. Architect, H. Gordon McMurtrie, 1012 Walnut street, Philadelphia. Owners, City of Norristown, Town Hall, Norristown, Pa. Work contemplated. Plans in progress.

School (alts. and add.), Marshall, Selma and Forrest avenue, Norristown, Pa. Architect, Oliver Randolph Parry, 1524 Chestnut street, Philadelphia. Owners, School District of Norristown, C. I. Moore, Norristown, Pa. Work contemplated.

School (add.) and Administration Building, New Bloomfield, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Carson-Long Institute, Theo. K. Long, president, New Bloomfield, Pa. Fireproof, 3 stories and basement, 40x40 feet, slate roof, maple and concrete floors, waterproofing, ornamental iron, tile work, central heat, electric light. Preliminary plans in progress.

Washington School (add.), Norristown, Pa. Architect, Oliver Randolph Parry, 1524 Sansom street, Philadelphia. Owners, Board of Education, Norristown, Pa. 4 room addition. Plans in progress.

Bellfry Hall (add.), New Bloomfield, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Carson Long Institute, Theodore K. Long, president, New Bloomfield, Pa. Fireproof, 2½ stories, 32x40 feet, slate roof ,concrete floors, iron stairs, ornamental iron, waterproofing. Preliminary plans in progress.

Assembly Hall (alts. and add.), Bustleton, Pa. Architect, C. H. Fries, Drexel Building, Philadelphia. Owners, St. Luke the Beloved Physician Church, Bustleton, Pa. Ready for bids in a week.

Residence (add.), Easton, Pa. Architect, William Michler, Drake Building, Easton, Pa. Owner, Charles Chipman, R. D. 3, Easton, Pa. Stucco, 2 ½stories, 3 additions, slate roof, hardwood floors, tile work, electric light. Plans in progress. Architect will be ready for bids in two weeks.

Residences and Garages (3), Elkins Park,

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Pa. Architect, Edwin A. Schoeppe, 316 South Fifteenth street, Philadelphia. Owner, P. P. Hagan, care of architect. Stone, hollow tile, stucco, 2½ stories, 27x36 feet, 1 story, 15x20 feet, slate roof, hardwood floors, cement work, hot water heat, electric light, tile work. Plans in progress. Architect will be ready for general bids December 10th.

Theatre and 4 Stores, Ashby road and Sixty-ninth street, Stonehurst, Delaware County, Pr. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Stanley Company of America, Jules Mastbaum, 1916 Race street. Brick, limestone, steel, 1 story and basement, slag roof, cement floors, steam heat, electric light, metal lath, tile and marble work, ornamental iron work. (Seating capacity 3,000.) Architect will build and will be ready for sub-bids in two weeks.

School, Horsham, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Horsham, Pa. Brick, stone, steel, 1 story and basement, 150x60 feet (plumbing, heating, electric separate bids), slag roof, maple floors, metal lath. Certified check, 5 per cent. Surety bonds, penal bond. Deposit (check $10) refunded. Owners taking bids due at Horsham Fire House, December 8th, 7.30 P. M.

Stores (2), Apartments (4), Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owner, J. Carroll Malloy, Doylestown, Pa. Brick, 3 stories, hot water heat, electric light, slag roof, hardwood floors, tile work, flush bulks, plate glass. Architect taking bids due December 6th.

Church and Sunday School, Perkasie, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, First Evangelical Church, Rev. J. F. White, Perkasie, Pa. Brick, 1 story and gallery. W. S. Kulp, Perkasie, Pa., secretary of Building Committee, taking bids due December 15th at 6 P. M.

Paving, Clifton Heights, Pa. Architects, Damon & Foster, Upper Darby, Pa. Owners, Borough of Clifton Heights, H. R. Jones, Clifton Heights, Pa. Certified check, $300. Owners taking bids due December 2nd, 8 P. M.

Masonic Temple, Scranton, Pa. Architect, Raymond Hood, 40 West Fortieth street, New York City. Owners, Scottish Rite, Masonic Order, Scranton, Pa. Limestone, stone, brick, steel, 6 stories and basement, 125x200 feet, tile roof, cement and maple floors, steam heat, electric light, metal lath, tile and marble work, elevators, cast stone. Architect taking bids due December 21st.

Residence and Garage, Drexel Park, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owner, Charles Svoboda, Schaef Building, Philadelphia. Stone, half timber, brick, 2½ stories, 50x45 feet, asbestos shingle roof, hardwood floors, hot water heat, electric light, tile work. Architects taking bids due December 9th, 5 P. M.

School (repairs), Twelfth and Melrose avenue, Chester, Pa. Architect, private plans. Owners, School Board of Chester, C .E. Sanderson, Chester, Pa. Cement work, new wooden floors. Certified check, 10 per cent. Owners taking bids due December 6th, 8 P. M.

Crow Creek Bridge, West Forbes street, Bridgeport, Pa. County engineer, Norristown, Pa. Owners, County Commissioners, Montgomery County, Norristown, Pa. Reinforced concrete. Plans in progress.

Pennsylvania Contracts Awarded

School, Boothwyn, Pa., $40,628. Architects, H. Rex Stackhouse and W. W. Donohoe, 266 South Fifteenth street, Philadelyhia. Owners, Upper Chichester Township School Board, Boothwyn, Pa. Brick, steel, cut stone, 1 story and basement, 110x36 feet, wing 23x60 feet, 26x60 feet (plumbing, heating, electric separate), metal lath, rolled steel sash, galvanized iron skylights, tin lined doors, floor hardener, ornamental iron work, slag roof, cement and maple floors, hollow tile, metal weather strip, dampproofing, hollow concrete block, area gratings. Contract awarded R. S. Herzog, 10 South Eighteenth street, Philadelphia, who is taking sub-bids on steam shoveling and excavation.

Building, Doylestown, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Derk Mfg. Co., Doylestown, Pa. Brick, reinforced concrete, 1 story and basement, 126x152 feet, slag roof, cement and maple floors, hollow tile, plumbing, rolled steel sash and skylights, tin-clad and hollow metal doors, bond, ornamental iron work, composition floors, rolled steel shutters, metal partitions, caulking. Contract awarded F H. Keiser, Pottstown, Pa.

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Residence, Wyncote, Pa. Architect, Walter K. Durham, 312 South Broad street, Philadelphia. Owner, E. J. Gould, care of architect. Stone, 2½ stories and basement, 35x60 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Contract awarded E. Allen Reeves, Abington, Pa.

Chapel, Doylestown, Pa. Architect, A. Oscar Martin, Doylestown, Pa. Owners, St. Paul's Episcopal Church, Doylestown, Pa. Contract awarded Louis F. Treffinger, Doylestown, Pa.

Factory, Conshohocken, Pa. Architect, private plans. Owners, Carlile & Dougherty, Conshohocken, Pa. Brick, steel, 1 story and basement, 72x80 feet, slag roof, cement floors, electric work. Contract awarded H. P. Schneider, 3713 Old York road, Philadelphia.

Pennsylvania State Highway Work. Huntingdon County, A-2845-2828A, Carbon Townshisp, Broad Top City Borough, 7,931 feet. One course reinforced concrete. Contract awarded Leon Swartz, Spangler, Pa., $61,980.79.

York County, 4-411 A 4338, Manheim Township, 15,447. One course reinforced concrete, Sherman. Contract awarded Paul R. Postetter Co., Inc., York, Pa., $128,537.

Residence, Swarthmore, Pa. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, Otto Kraus, Jr., Liberty Building, Philadelphia. Stone, cut stone, brick, 2½ stories, 46x30 feet, oak, pine and cement floors, iron work, tile work, metal lath, electric light. Contract awarded C. E. Fogg, Lansdowne, Pa.

Bungalow, Troope, Pa. Architect, E. L. Crawford, Norristown, Pa. Owner, E. H. Cook, 2232 Fitzwater street, Philadelphia. Brick, 1 story, 29x40 feet, slate roof, pine floors, hot water heat, electric light, tile work. Contract awarded Friend Reiff Co., Norristown, Pa.

I make it a rule never to write a grouchy letter—I telephone.

New Jersey Construction News

School, Bell Mawr, N. J. Architect, John L. Coneys, Drexel Building, Philadelphia. Owner, School Board, F. L. Dyer, Borough of Bell Mawr, N. J. Brick, stone, 2 stories, 36x0 feet, slate roof, maple floors, electric light, unit ventilating system. Plans in progress. Will be ready for bids in January, 1927.

Office and Apartment and Garage, Ocean City, N. J. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 2 wings, 30x50 feet, 20x40 feet, slag roof, hot water heat, tile work, cement and tile floors. Plans about completed.

Apartment Building, Trenton, N. J. Architect, L. S. Kaplin, Fitzcharles Building, Trenton, N. J. Owner, M. A. Rosenthal, care of architect. Brick, steel, 4 stories, 90x90 feet, slag roof, hardwood floors, vapor heat, electric light, tile and marble, iron stairs. Preliminary plans in progress.

Store (add. and alts.), 7 North Broad street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Palace Confectionery Co., on premises. Brick, stone, 4 and 3 stories, 25x45 feet, slag roof, heating extension, electric light, tile and marble, plate glass. Plans in progress.

Labor Lyceum, Trenton, N. J. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owners, Workman Circle, No. 90, care of architect. Brick, steel, limestone, 3 stories, 50x100 feet, slag roof, maple floors, hollow tile, vapor heat, electric light, metal lath, tile and marble, iron stairs, ornamental iron. Plans in progress.

Administration Building, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City Board of Education, H. H. Young, secretary, Atlantic City, N. J. Fireproof, 3 stories, 47x120 feet, slag roof, hardwood floors, elevators, terra cotta, stone, tile and marble, electric light. Owners will be ready for bids in one week.

Parochial School, Pleasantville, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owners, St. Peter's Roman Catholic Church, Rev. Dr. F. J. McCallion, Pleasantville, N. J. Brick, 2 stories, 60x100 feet, hardwood and composition floors, steam heat, electric light. Architect will be ready for bids in two weeks. (Note correction.)

Office Building, Atlantic City, N. J. Architect, A. F. Amodio, Segal Building, Atlantic

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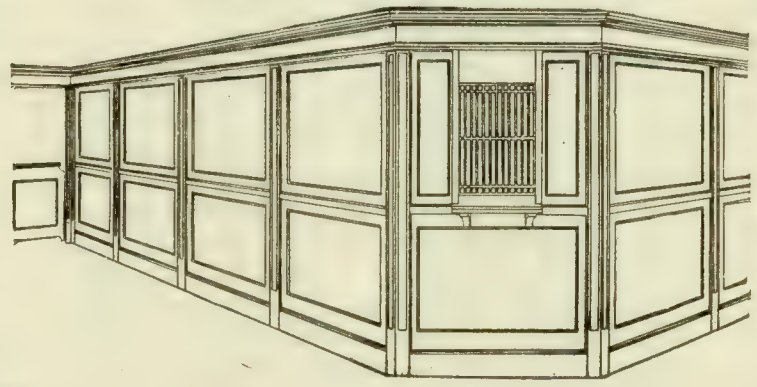
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City, N. J. Owner, A. M. Ruffu, 2024 Atlantic avenue, Atlantic City, N. J. Semi-fireproof, 4 stories, 80x61 feet, slag roof, maple floors, hot water heat, electric light, metal lath, tile work, elevators. Owner will build.

Stores (2), Apartments (2), Kaighn avenue, Camden, N. J. Architect, I. Demchick, 1701 Chestnut street, Philadelphia. Owner, name withheld. Brick, 2 stories, 16x60 feet, hardwood and pine floors, hot water heat, electric light, flush bulks, plate glass. Plans about completed. Owner will be ready for bids in 10 days.

School and Chapel, West Berlin, N. J. Architect, George Brooks, Perth Amboy, N. J. Owners, Our Lady of Mt. Carmel, West Berlin, N. J. Brick, 1½ stories. Plans in progress. Bids will be taken in spring, 1927.

School, Mt. Ephraim, N. J. Architects, Edwards & Green, Camden, N. J. Owners, Board of Education, H. L. Jacoby, Mt. Ephraim, N. J. Deposit, $25, refunded. Certified check. Owners taking bids due December 10th, 8.30 P. M.

Home, Ocean City, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, Mrs. M. Denan, Bay avenue, Ocean City, N J. Frame, stucco, 2½ stories, 36x44 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Owner taking bids due December 4th.

Residence, Absecon, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owner, J. Falivene, Absecon, N. J. Brick, 2 stories, 28x50 feet, asbestos roof, hardwood floors, hoe water heat, electric light, tile work. Architect taking bids due December 4th.

Residence and Garage, Hightstown, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owner, Mayor Thompson, Hightstown, N. J. Stone, 2½ stories, 50x108 feet, 40x25 feet, Stonefield slate roof, oak and slate floors, vapor heat, electric light, tile and marble. Architect taking revised bids.

Sales Building and Addition to Present Building, Haddon avenue and Secamore street, Camden, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Pep Auto Co., Broad and Vine streets, Philadelphia. Brick, 1 story, 32x100 feet, slag roof, cement floors, plumbing, steam heat, electric light, flush bulks. Architects taking bids due December 7th.

Apartment, Chelsea, N. J. Architect, A. B. Steelman, Guarantee Trust Building, Atlantic City, N. J. Owner, Benjamin Tolin, care of architect. Brick, stone, 5 stories, 38x83 feet, slag roof, hardwood floors, tile work, electric light (heating reserved), hollow tile, elevators. Architect taking bids due December 7th.

Residences (12), 2680-2710 Congress road, Camden, N. J., $35,000. Architect, private plans. Owners, Fairview Home Building Co., 2760 Congress road, Camden, N. J. Block, 2 stories, (2) 18x40 feet, (10) 16x40 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (14), 1130-56 Van Hook street, Camden, N. J., $35,000. Owner, Ludwick Grabowski, 1121 Kaighn avenue, Camden, N. J. Brick, 2 stories, (1) 16x31 feet, (13) 14x31 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Grading, etc., High School Grounds, Blackwood, N. J. Owners, School District of Gloucester Township, J. Launton Simpkins, School House, Blackwood, N. J. Approximately 3,000 cubic yards of earth. Certified check, 2 per cent, bond. Owners taking bids due December 3rd, 2 P. M.

Bridge (reconstruction), Inside Thorofare, Atlantic City, N. J. Engineer, A. H. Nelson, Guarantee Trust Building, Atlantic City, N. J. Owners, Board of Freeholders of Atlantic County, Atlantic City, N. J. Owners taking bids due December 15th.

Ventnor Pier and Auditorium Addition, Ventnor, N. J. Architect, S. B. Dobbins, Segal Building, Atlantic City, N. J. Owners, City of Ventnor, Ventnor City, N. J. Lowest bidders: James Ferry, Inc., Virginia and Mediterranean avenues, Atlantic City, $134,000. Plumbing and heating, W. M. Jarman, 4 South New York avenue, Atlantic City, N. J., $6,669. Electrical, L. L. Jones Co., 1019 Atlantic avenue, Atlantic City, $4,150.

Highway Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Ocean City-Somers Point road, Cape May County. Lowest bidder, William Eisenberg, Smith-Austermuhl Building, Camden, N. J., $62,820.29.

Paving, Erial road, Blackwood, N J. Engineer, J. J. Albertson, Camden, N. J. Owners, Borough of Blackwood, R. C. Baer, Blackwood, N. J. Approximately 2,038 cubic yards excavation, 13,556 square yards 8-inch compact gravel. Time of completion, 50 days. Certified check, 10 per cent., surety bond. Owners taking bids due December 10th, 8 P. M.

New Jersey Contracts Awarded

Fire House Ventnor, N. J., $86,785. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, City of Ventnor, Ventnor City, N. J. Brick, steel, 2 stories, 60x120 feet, slag roof, composition floors, rolled steel sash. Contract awarded to Zane & Litzie, 2300 Arctic avenue, Atlantic City, N. J. Plumbing to Benjamin E. Labov, 212 Adriatic avenue, Atlantic City, $5,600. Electric to Gruen Electric Co., 44 North Massachusetts avenue, Atlantic City, $1,664.50.

Rectory (add. and alts.), Pleasantville, N. J. Architect, A. F. Amodio, Segal Building, Atlantic City, N. J. Owners, St. Peter's Roman Catholic Parish, Rev. J. F. McCallion, Pleasantville, N. J. Brick, stucco, 3½ stories, 18x60 feet, tile roof, hardwood floors, plumbing, tile work, electric light. Contract awarded to Walter Meagers, Pleasantville, N. J.

Residence, 65 South Forty-first street, Camden, N. J,, $8,500. Architect, private plans. Owner, Charles Steiger, Camden, N. J. Block and stucco, 3 stories, 26x36 feet, asbestos shingle roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to John Cundey, Westville, N. J.

Municipal Water Works, Brooklawn, N J., $42,536.78. Engineer, Edgar Wittwer, 723 Haddon avenue, Collingswood, N. J. Owners, Borough of Brooklawn, J. Y. Bishop, Clerk, Brooklawn, N. J. Contract awarded to W. P. Dallerr, 4042 Filbert street, Philadelphia.

Highway Work, New Jersey. Owners, State Highway Department, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Sections 11 and 12, Route 1 Extension, Newark, Contract 4, bridges. Contract awarded to O'Neill Co., 127 East Mermaid lane, Philadelphia, $957,860.40. Route 12, Section 9, Fairfield to Little Falls, Essex and Passaic Counties. Contract awarded to P. Camillo & Co., Westfield, N. J., $207,249.94.

Miscellaneous Construction News

Residence, Winston-Salem, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, R. G. Sohre, care of architect. Frame and clapboard, 2½ stories. Ready for bids in a month.

Garage, Charlotte, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, Robert E. Lasater, care of architect. Frame, 24x32 feet (plumbing, heating, electric separate), tile roof, cement floors. Owner taking general bids.

Church and Sunday School, location withheld, North Carolina. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owners, St. Paul's Episcopal Church, care of architect. Stone, brick, steel, 1 story and basement, seating capacity 700, slate roof, maple floors, steam heat, electric light. Plans in progress.

Convent and Academy Building, Mt. St. Mary on the Hudson, New York. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia, and 130 West Forty-second street, New York. Owners, Sisters of the Order of St. Dominic, on premises. Brick, reinforced concrete, cut stone, limestone, steel, 5 stories and basement, 237x50 feet, wing 116x47 feet, wing 78x44 feet, built-up and variegated slate roof, cement, pine and maple floors, hollow tile, elevators, roof ventilators, metal window guards, metal weather strip, dampproofing, membrane waterproofing, metal lath, steam heat, electric light, tile, marble and terrazzo, rolled steel and hollow metal sash, Monitor skylights, tinclad and kalamein doors, floor hardener, ornamental iron work, brass pipe, cast stone, steel casements, hollow metal partitions, caulking, mastic floors, dumb waiters, oil burner equipment, Austial window hardware. Architect taking bids due December 8th at noon.

Miscellaneous Contracts Awarded

Sunday School, Reynola, N. C. Architect, Charles Barton Keen, 338 South Smedley street, Philadelphia. Owner, J. E. Johnston, care of architect. Brick, 1 story, 135x75 feet, tin roof, wood floors, metal sash. Contract awarded J. A. Gardner, Reynola, N. C.

The man who starts out with the idea of getting rich won't succeed; you must have a larger ambition. There is no mystery in business success. If you do each day's task successfully, stay faithfully within the natural operations of commercial law, and keep your head clear, you will come out all right.—John D. Rockefeller.

(Continued from page 760)

rials and labor have not advanced correspondingly in recent months, it must be presumed that the October reports cover a larger number of commercial buildings and a higher type of residential buildings than average. The present tendency to build detached and semi-detached or duplex residences probably is accountable for the increased average cost.

Comparisons between years can be made only for 20 of the 42 municipalities. These show that construction operations amounting to 24,641,063 were reported in October, 1925, compared to $20,667,894 reported for October, 1926, a loss in 1926 of nearly $4,000,000, or 16 per cent. Five of the 20 cities report increased building

activity over October of last year. Those five cities and their per cent. of gain are Allentown, 223 per cent.; Harrisburg, 45 per cent.; Pittsburgh, 152 per cent.; Uniontown, 157 per cent.; and Williamsport, 18 per cent. These increases were sufficient to offset the losses in all other cities with the exception of Philadelphia. The volume of construction reported for Philadelphia during October, 1926, dropped more than $4,000,000 below the October, 1925, total. Other cities that show large declines under a year ago are Altoona, Bethlehem, Bradford, Easton, Erie, Lancaster, Reading, Scranton, Wilkes-Barre and York.

For the 10 months of this year the decrease in the value of permits granted in the 20 cities has been $53,267,000, or more than 21 per cent., lower than the first 10 months of 1925.

ESTIMATED VALUE OF BUILDING PERMITS ISSUED IN PENNSYLVANIA, JANUARY TO OCTOBER, INCLUSIVE

City or Borough	January to October, inclusive 1926		January to October, inclusive 1925	
	Number of Buildings	Estimated Cost	Number of Buildings	Estimated Cost
Allentown	1,615	$ 8,337,275	1,461	$ 6,331,185
Altoona	1,500	2,719,138	1,632	2,831,569
Bethlehem	724	2,074,296	509	5,817,575
Bradford	313	643,168	357	696,375
Easton	355	2,089,245	354	2,346,126
Erie	1,858	4,687,641	2,033	8,024,569
Harrisburg	1,006	3,603,060	945	4,062,671
Lancaster	646	1,881,467	781	3,759,352
Meadville	134	778,176	138	819,085
New Castle	736	2,097,225	1,026	2,129,520
Oil City	425	421,215	615	1,109,723
Philadelphia	17,295	110,780,135	20,942	149,111,135
Pittsburgh	6,885*	37,042,379	7,418*	37,187,687
Reading	2,320	5,408,225	2,489	6,942,919
Scranton	1,354	4,666,548	1,545	6,311,901
Uniontown	115	507,980	169	1,353,391
Warren Borough	137	679,067	153	772,008
Wilkes-Barre	1,308	3,581,219	1,351	3,773,103
Williamsport	757	2,138,704	849	2,026,386
York	940	1,377,857	1,087	3,374,807
Total	40,423	$195,514,020	45,854	$248,781,087

*Number of Permits—Buildings Not Given.

NEW BUILDINGS, ADDITIONS, ALTERATIONS AND REPAIRS IN PENNSYLVANIA FOR THE MONTH OF OCTOBER

City or Borough	1926				1925			
	New Buildings		Additions, Alterations, Repairs, etc.		New Buildings		Additions, Alterations, Repairs, etc.	
	Number of Buildings	Estimated Cost	Number of Buildings	Estimated Cost	Number of Buildings	Estimated Cost	Number of Buildings	Estimated Cost
Allentown	145	$ 2,585,250	22	$ 56,575	114	$ 778,600	28	$ 38,700
Altoona	74	208,192	55	17,182	73	235,624	66	43,698
Bethlehem	35	85,650	29	63,441	40	2,575,525	16	39,250
Bradford	13	17,900	9	5,465	19	72,650	16	43,915
Easton	20	75,237	14	58,973	28	168,205	9	40,175
Erie	138	279,035	54	52,139	165	562,985	46	118,497
Harrisburg	68	201,625	24	77,775	58	183,050	19	9,425
Lancaster	33	116,900	29	20,035	41	398,090	63	11,265
Meadville	5	14,150	13	8,185	4	21,700	10	21,015
New Castle	67	131,355	11	13,850	75	160,815	10	1,670
Oil City	9	1,800	38	13,390	18	23,825	23	5,635
Philadelphia	861	7,348,330	689	1,014,265	1,416	12,178,650	351	611,140
Pittsburgh	500*	6,593,797	222*	498,189	525*	2,651,918	201*	157,350
Reading	63	165,300	169	129,975	89	1,318,900	180	69,625
Uniontown	21	110,025	7	16,675	14	49,255	..	..
Warren Borough	8	26,375	5	2,100	6	35,200	5	47,675
Wilkes-Barre	40	124,888	82	36,590	77	396,700	75	61,905
Williamsport	40	131,895	32	4,722	56	113,000	21	2,565
York	26	62,670	30	16,587	48	714,485	36	25,841
Total	2,166	$18,280,374	1,534	$2,106,104	2,866	$22,639,177	1,175	$1,349,346

*Number of Permits—Buildings Not Given.

(Continued from Page 759)

Saving if straight lime mortar is used..... 75,890 days

This saving would be equivalent to continuous employment for 316 men for twelve months, working twenty full days every month. If the bricklayers were paid at the rate of $1.50 per hour, their time would be worth $910,680. Also, for every hour of bricklayers' time which is saved there would be one hour of common labor time saved for the men who serve the bricklayers. Consequently, there is the additional saving of 75,890 days of common labor time, which at the rate of $.90 per hour would amount to $556,400. If lime mortar were used this saving would be:

Bricklayers' Time.....	$910,680
Common labor time....	556,400
Materials	16,479,500
Total.....	$17,946,580

This saving does not take into consideration additional cost of insurance, overhead, etc., important items to the builder.

Any building code will permit a loading of at least 90 pounds per square inch on brickwork laid in lime mortar. Most codes permit 100 pounds per square inch and some permit 125 pounds. The recent report of the Department of Commerce Building Code Commitee—"Minimum Requirements for Masonry Wall Construction"—states that when allowance is made for eccentricity and concentrated loading, bending, etc., a loading of 135 pounds per square inch is safe. Recent tests on ordinary good clay brick construction, made on sections of 8-inch walls laid up in lime mortar and broken at the Rock Island Arsenal, showed an average 28-day compressive strength of 695 pounds per square inch. Similar results were obtained on wall specimens tested at the Bureau of Standards.

The wall sections tested at the Rock Island Arsenal were checked to determine what loads had to be applied in order to produce a measurable settlement. The deformation found, even under heavy loading, was so small that it could not be determined on a building during construction, for a single grain of sand would be more than enough to compensate for the slight variation. If the lime-mortar wall one day old was 5 feet high, it would require the erection of 12 feet more of new wall the next day in order to produce a total settlement of 1-32-inch, or less than an ordinary grain of sand.

Lime mortar continually increases in strength, gradually changing into limestone surrounding the sand grains, making a binder which is frequently more permanent than the unit it holds in place. Also, lime mortar gives a perfect balance between compressive strength, tensile strength, and bond or resistance to shear. When used in the wall it gives uniform, even bearing and perfect bedding to every brick, making the most of every surface and binding the bricks together into a solid and uniform mass capable of resisting any forces which a wall must withstand. This uniform and even bedding is extremely important, for it utilizes the full area of the bricks to carry the load and avoid cracking. If high compressive strength alone was necessary, a strip of steel might well replace the mortar joint.

What is required of mortar is to bind masonry units together to make a wall that is strong enough to carry the load. Lime mortar is strong enough; it is plastic beyond any other mortar, and is without competition in price. A wall laid in good lime mortar is safe.

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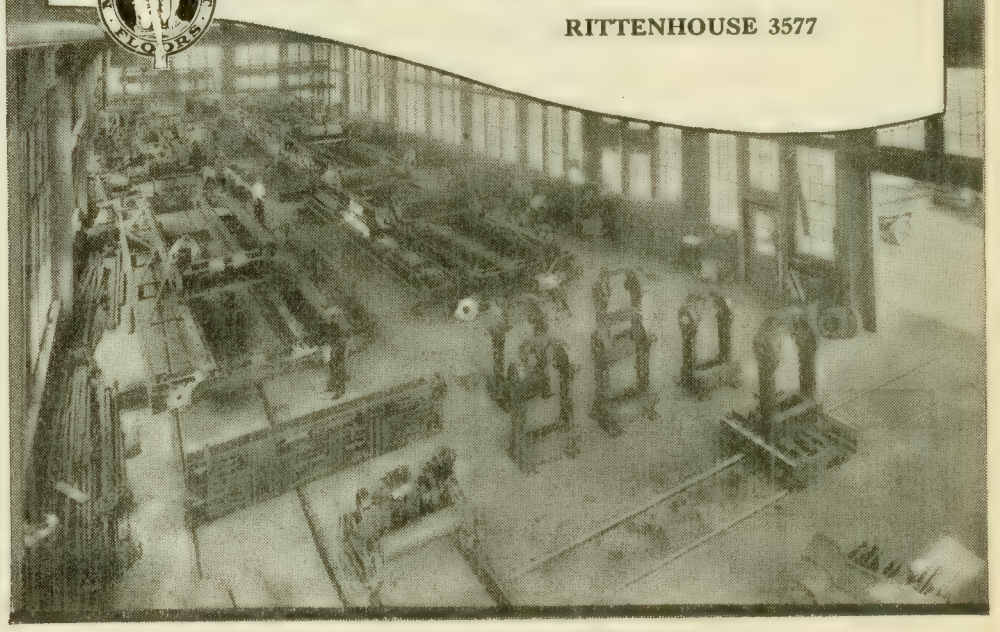
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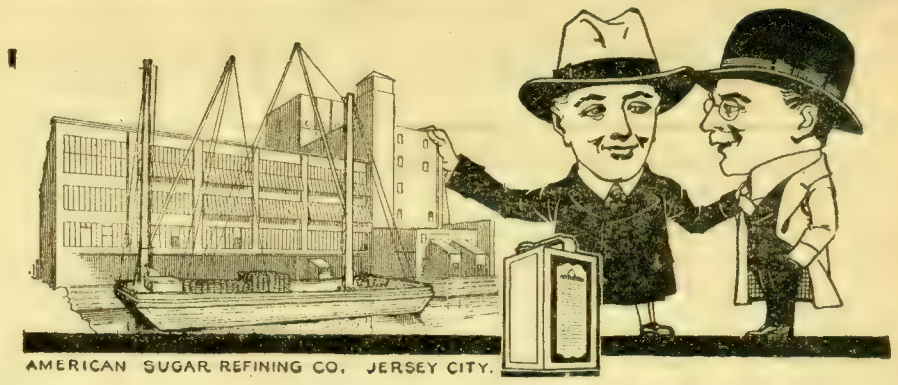
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Builders' Guide

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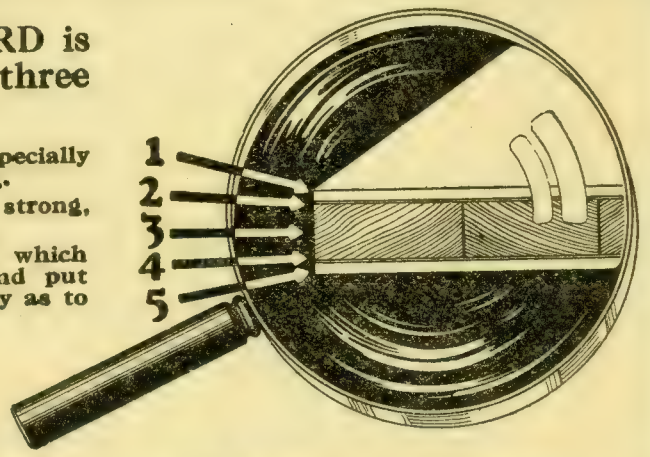
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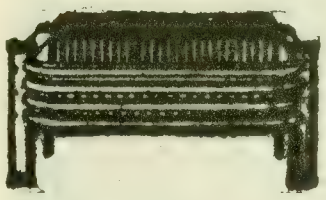
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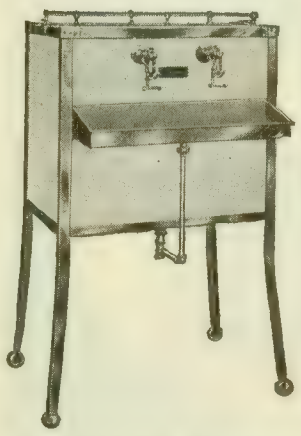
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BUILDERS' GUIDE

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As The Editor Sees It

EFFECTIVE FACTORY HEATING

I. Selecting and Installing the Equipment

BY K. D. HAMILTON

Plant Engineer, George E. Keith Co., Brockton, Massachusetts

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How much to invest in a heating plant is somewhat a matter of location. Plants located in the northern part of the country, where the heating season extends seven to eight months, can well afford to install the most efficient equipment. The aim is reduced operating costs, both coal and labor, even at the expense of higher carrying-charges. Attention to labor-saving devices, to combustion studies, and to equipment which will produce steam at a low operating cost is well justified. However, factories which, because of the geographical location, do not require a large steam plant for heating, can afford perhaps a less efficient equipment, in view of the saving in investment.

One of the most widely used methods of heating in the northern portion of the United States is the direct steam system. This may be of the gravity, one-pipe, or two-pipe type, for the small plant; or the two-pipe vacuum system, for plants which are spread over several acres.

For a single building, of either the single-story or the multi-story type, the gravity system may be satisfactory, provided the mains are large enough to take care of both the steam supply and the return condensation.

Because of the more rapid circulation of the steam, even at lower temperature, the two-pipe gravity system operates much more efficiently, furnishes more rapid circulation, and can be operated at less expense. Modifications of this gravity system have been developed which employ the use of small ejectors and other specialties for removing the air from the system.

Use of the Two-Pipe Gravity System

These have a tendency to increase the circulation, in some cases even allowing the use of vapor and operation at pressures below atmosphere. I know of many large buildings in which a two-pipe gravity system with these additional features furnishes excellent results at minimum cost. These systems may be furnished with downfeeds, allowing the steam to be delivered first to the radiators on the top floor and then gradually working its way down through the building. Care should be taken, however, to provide sufficiently large steam mains and return lines.

The two-pipe vacuum system is most popular with the larger plants. It is very efficient because of the possibility of operating the return lines at below-atmosphere pressure. Steam is delivered to the various radiators and heating coils through the plant at pressures above atmosphere, the pressure depending upon the temperature required. It is possible to operate these systems on pressures as high as five or ten pounds, but very frequently extremely large plants can be efficiently heated on one or two pounds of pressure and five to six inches of vacuum. The advantages of the vacuum system are that for the same amount of steam and water handled, the pipes can be smaller than they can with the gravity system. The vacuum pump, located at the low spot in the system, is either motor-driven or steam-driven, depending upon operating conditions. It removes the condensate and air from the radiators, and it discharges the condensate to the hot wells or open feed-water heaters, to be used again in the boilers. However, vacuum traps must be provided on the ends of radiators and coils, to eliminate any possibility of the steam being carried over

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into the vacuum lines. These traps increase the efficiency of the system, because, provided the traps are tight, there is no wastage of steam. The traps are of various designs. They may operate either mechanically or thermostatically. In the latter case they expand or contract, depending upon the temperature of the operating medium within the trap, allowing the water, but not the steam, to pass the valve.

Variations in levels between floors in different buildings often require the raising of the condensate to a higher level, in order to return it to the boiler. This is more likely to be the case in a large plant with scattered buildings, since it may not be possible to place the vacuum pump at the lowest point in the plant. When sufficient vacuum can be maintained on the system, water can be lifted several feet without reducing the efficiency of the equipment itself. I have known of cases where with heating returns five or six feet below the pump the water has been returned to the boilers satisfactorily.

The type of radiation used with steam systems will vary with the character of the building and the kind of operation carried on. Pipe coils are used primarily for factory work, since they can be placed under the windows at frequent intervals throughout the building and produce sufficient radiation. These coils are limited in length because of the expansion of long lengths of piping.

Cast-iron radiation is used in better class of buildings, primarily because of its appearance and because a larger amount of heating surface can be concentrated in a limited space. This is particularly needful in large buildings with extended glass areas, where considerable radiation must compensate for the heat losses through the glass.

Fittings should be provided at the discharge end of cast-iron radiators, to allow a rapid discharge of the water from the radiator to the trap, so that water will not collect and interfere with the flow of steam. Eccentric bushings are sometimes used at the trap connections to allow constant drainage of the radiator itself.

When steam coils are pitched to insure proper drainage, they can be trapped easily. A mud drum should always be furnished on the header at the end of the coil, to collect any sediment which might gather there. The trap which is connected to the mud drum will function to relieve any condensation which collects in the coil because there is no possibility of scale or dirt interfering with the moving parts inside the trap.

The rapidity of circulation will depend upon the temperature of the radiator. This in turn is influenced by the temperature, or pressure, of the steam on the inside. The higher the temperature in the radiator, the greater the velocity of the air passing over it and consequently the more rapidly the room will heat up.

The unit heater has seen rapid development in replacing cast-iron radiation and pipe coils as commonly used. A unit heater combines a heater section and a fan, making possible the erection of individual units in any portion of the shop. By recirculating the air, the building can be warmed at minimum cost in heating equipment. However, unless the air is thoroughly clean in the building, considerable dust will be moved from one portion of the structure to another. Unit heaters are admirably suited for isolated buildings, large open shops, and factory workrooms in general.

Unit heaters will furnish additional radiation in those portions of old factories which are hard to heat. Many factories can be kept warm except in extreme cold weather, when, to insure comfortable working conditions, it is necessary to force the boilers to the limit to drive the steam to the remote corners of the buildings. Small unit heaters solve this problem.

When steam is used in connection with ventilating systems, a large steam coil is located near the fan so that the fresh air can be forced through the coils and out into the building through a system of ducts. In such systems the steam pressure is usually automatically regulated by the temperature of the room.

Air washers and filters should be considered for use with an indirect heating system. Sectional filter cells can be erected in any number of units necessary to clean the air. Recently types have been devised which are admirably suited for installation in the suction line of a fan used for ventilation. Filters can also be used in connection with unit heaters.

Little do many managers realize the tremendous amount of heat which is removed from factory buildings by exhaust systems. After the dust has been removed from the air by some form of collector or separating system, this air can be recirculated through the factory, thus saving the heat. Before this air is discharged into the building again it should be cleaned by a filter.

(Continued on page 785)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Hospital Building, Broad and Catherine streets, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Howard Hospital, Strickland L. Kneaf, Chairman of Building Committee, on premises. Plans in progress.

College, Twentieth and Olney avenue, Philadelphia, $3,000,000. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, La Salle College, Brother Dorotheus, President, Broad and Stiles streets, Philadelphia. Stone. Sketches drawn.

Manufacturing Building (add.), Thirty-third and Reed streets, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Lipsky Brothers, on premises. Brick, stone, reinforced concrete slag construction, 4 stories, 90x110 feet, composition roof, cement floors, elevators, steam heat, electric light, rolled steel sash. Plans about completed. Architect will be ready for general bids in ten days.

Store Building, 626 Arch street, Philadelphia. Architect, Frank E. Hahn, Seventh and Chestnut streets, Philadelphia. Owners, Karr & Auerbach, 415 Market street, Philadelphia. New front, general alterations. Plans about completed. Ready for bids in a few days.

Residence (alts. to store and apartments), Nineteenth and Ontario streets, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owner, Warren D. Meixner, 3100 North Twenty-second street, Philadelphia. Changing partitions, hot water heat, electric light, tile work, hardwood floors, painting and glazing, plumbing. Owner taking sub-bids.

Residences (16), Brill and Horrocks streets, Philadelphia. Architect, I. W. Levin, Elrae Building, Philadelphia. Owner, A. Rosen, 521 Porter street, Philadelphia. Brick, 2 stories, 16x48 feet, slag roof, hardwood floors, hot water heat, electric light, tile work, cement work, garage in basement. Owner taking sub-bids.

Church, Sixty-fifth and Lansdowne avenue, Philadelphia. Architects and engineers, William Steele & Son, 219 North Broad street, Philadelphia. Owners, St. Callistus' Roman Catholic Church, Rev. D. S. Coonahan, on premises. Stone, steam heat, electric light, slate roof. Architects and engineers ready for sub-bids in seven weeks. Plans in progress.

Laundry Building, Sixth street, North of Lehigh avenue, Philadelphia. Engineers, H. M. Wilson Co., People's Bank Building, Philadelphia. Owners, Tremont Laundry Co., 629 West York street, Philadelphia. Brick, mill construction, 1 story, 54x137 feet, trussed slag roof, wood and cement floors, plumbing, steam heat, electric light. Engineers will be ready for sub-bids in 10 days.

Parochial School, 623-25 Christian street, Philadelphia. Architects, Homan-Henon, Finance Building, Philadelphia. Owners, St. Mary's Magdalen Paizzi, Rt. Rev. Mgr. A. Garritano, 710 Montrose street, Philadelphia. Plans completed. Ready for bids in a few days.

Sub-Station, Broad and Mt. Vernon streets, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Plans about completed. Owners will be ready for bids in one week.

Sub-Stations No. 4 and No. 5, Louden and Carlisle streets, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Brick, steel, cut stone, granite, 1 story and basement, 89x73 feet, Cumberland and Park avenue, 85x65 feet, slag roof, cement floors, roof ventilators, dampproofing, architectural terra cotta, bond, marble work, rolled steel sash, bluestone, area gratings, steel partitions, limestone. Owners taking revised bids due December 14th at noon. Deposit, $50, refunded. Certified check, 5 per cent. of bid.

Apartment House, Wayne avenue, Chelten and School Lane, Philadelphia, $400,000. Owner, name withheld, care of E. A. Havens Co., Widener Building, Philadelphia. Size of lot, 120x160 feet. Announcement will be made in one month.

Sales and Service Station, Northwest Corner Fifty-fifth and Walnut streets, Philadelphia. Architect, D. Supowitz, 929 Chestnut street, Philadelphia. Owners, William Burstein & Bro., Sixty-first and Walnut streets, Philadelphia. Owners taking bids due December 10th.

Sales and Service Station, 5115 Frankford avenue, Philadelphia. Architect, Edward Schoeppe, 316 South Fifteenth street, Philadelphia. Owners, Roth Buick Co., on premises. Brick, 1 story, 76x64 feet, slag roof, cement floors, steam heat, oil burner, rolled steel sash, ornamental iron work. Architect taking bids due December 10th.

Stores (2), Apartments (6), Fifty-eighth and Springfield avenue, Philadelphia. Architect, Albert N. Dobbins, 1718 Cherry street, Philadelphia. Owners, J. N. McMichael Realty Co., on premises. General interior alterations, lowering floor, vapor heat, plumbing, carpentry and mill work. Architect taking revised bids due as soon as possible.

Alterations and Additions, 3731-35 Walnut street, Philadelphia. Architect, Lloyd Titus, Brighton Hotel, Atlantic City, N. J. Owners, Jerrihian Brothers, on premises. Stone, reinforced and structural steel, 3 stories and basement, 75x85 feet, steam heat, electric light, tile and marble work, rolled steel sash, skylights, kalamein and rolled steel doors, miscellaneous iron work, composition roof, cement and wood floors, cement work, elevator doors (Peele), plastering, mill work, painting and glazing, Indiana limestone, granite, ornamental terra cotta, waterproofing, ash hoists. Architect taking bids due December 13th.

Alterations to Cots and Girders in Loading Plant, 222 Lombard street, Philadelphia. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Architect taking bids due December 13th at noon.

Contract No. 130, electrical equipment in shop buildings and light in yard of Fern Rock Station, Broad Street Subway, Philadelphia. Owners, Department of City Transit, 1211 Chestnut street, Philadelphia. Deposit, $50, refunded. Certified check, 5 per cent. Owners taking bids due December 17th at noon.

Office, South side Lycoming avenue, West of G street, Philadelphia, $7,000. Architect, private plans. Owners, Philadelphia Electric Co., 1000 Chestnut street, Philadelphia. Brick, 1 story, 18 feet 4 inches x 84 feet 4 inches, slag roof, pine floors. Permit issued.

Residence and Store (add. and alts.), 4201 Mantua avenue, Philadelphia, $2,000. Architect, private plans. Owner, I. Kravitz, 3942 Brown street, Philadelphia. Brick, 2 stories add., 16x12 feet, general alterations. Permit issued.

Bridge, over Schuylkill River, Green Lane, Manayunk, Philadelphia. Owners, Commissioners of Montgomery County and Philadelphia County, W. C. Irvin and S. H. Noyes, City Hall, Philadelphia. Low bidders: Seeds & Derham, 6314 Wissahickon avenue, Philadelphia, $399,157; Whiting Turner, Baltimore, Md., $403,585.

Residence (alts.), 1511 North Nineteenth street, Philadelphia, $4,000. Architect, private plans. Owner, Samuel Gourley, 1938 West Erie avenue, Philadelphia. General alterations. Permit issued.

Shop, Northwest Corner Twenty-second and Washington avenue, Philadelphia, $3,000. Architect, private plans. Owners, Belmont Iron Works, on premises. Iron, 70x100 feet. Permit issued.

Residences (31), East side Devon street, North of Moreland street, $139,500. Architect, private plans. Owners, Jamison & Greider, 1524 Chestnut street, Philadelphia. Brick, 2 stories, slag roof, hardwood and pine floors,

Residences (17), East and West sides Morris Park Road, West of Sixty-sixth street, $122,000. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, McWilliams Meloney, City Line and Haverford avenue, Philadelphia. Brick, 2 stories, 18x33 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (2), South side Fry street, West of Shalken street, $7,000. Architect, private plans. Owner, John B. Turrie, East Shawmont

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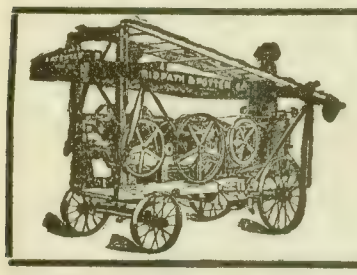
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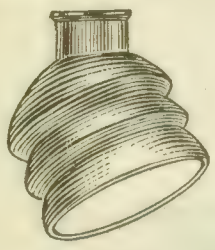
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avenue, Philadelphia. Stone, 2 stories, 20x30 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Apartment House (alts.), 1723 North Thirty-third street, Philadelphia, $3,000. Owners, Weiss Koplin Const. Co., Franklin Trust Building, Philadelphia. General alterations. Permit issued.

Residences (10), North side Vernon Road, West of Boyle street, $70,000. Architect, private plans. Owner, R. Melvin Mohr, 6650 Chew street, Philadelphia. Brick, 2 stories, 15x34 feet, 12x14 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (12), Whitaker avenue and Herkness street, Philadelphia, $55,000. Architect, private plans. Owners, Goldman & Bobb, 6234 Cedar avenue, Philadelphia. Brick, 2 stories, 16x31 feet, 12x19 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Storage Shed, Southwest Corner Twenty-fifth and Wharton streets, Philadelphia, $8,000. Architect, private plans. Owners, Penn Metal Co., Twenty-fifth and Wharton streets, Philadelphia. Steel, 1 story, 38 feet x irregular. Permit issued.

Residences (100), Thirty-second, Dickinson, Napa and Tasker streets, Philadelphia, $368,800. Owner, Robert G. McDougall, 1814 South Nineteenth street, Philadelphia. Brick, 2 stories, (92) 15x26 feet, 12x8 feet, (8) 15x50 feet, slag roof, hot water heat, electric light. Permit issued.

Residences (40), 4113-53 and 4114-50 Markland street, Philadelphia, $152,400. Architect, private plans. Owner, Alfred C. Lechler, 3705 Germantown avenue, Philadelphia. Brick, 2 stories, 15x28 feet, 11x8 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Service Station, Northwest Corner Twenty-ninth and Clearfield streets, $3,000. Architect, private plans. Owners, Sun Oil Co., 1428 South Penn Square, Philadelphia. Metal, 1 story, 18x16 feet. Permit issued.

Storage and Store Building (add.), 59 North Third street, Philadelphia, $2,000. Architect, private plans. Owner, T. Epstein, 61 North Third street, Philadelphia. Brick, 1 story add., 19x14 feet. Permit issued.

Apartment House and Stores, Broad and Erie Ave., Phila. Architect, Clarence E. Wunder, 1520 Locust St., Phila. Owner, Wm. Freihofer, 20th and Indiana Ave., Phila. Brick, steel, electric light, slag roof, hardwood floors, metal bulks, plate glass. Plans about completed. Architect will be ready for bids in a week.

Cafeteria (Alts.), 8th and Market Sts., Phila. Architects, Silverman & Levy, Elrae Bldg., Phila. Owners, Gimble Bros., 8th and Market Sts., Phila. General interior alterations. Architects taking bids due Dec. 20th.

Parish House, 3rd and Reed Sts., Phila. Architect, not selected. Owner, St. John the Evangelist P. E. Church, Rev. H. C. McHenry, 238 N. Apsley St., Phila. Work contemplated.

Chapel and Church, Roosevelt Blvd. and Front St., Phila. Architect, not selected. Owner, St. Gabriel's P. E. Church, Rev. W. T. Metz, Feltonville, Phila. Work contemplated.

Mission Building and Parish House, Phila., Pa. Architect not selected. Owner, Transfiguration P. E. Mission, Rev. H. C. McHenry, 238 Apsley St., Phila. Work contemplated.

Church, Columbia Ave. above 20th St., Phila. Architect, not selected. Owner, St. Augustine P. E. Mission, Rev. H. S. McDuffey, 2010 N. 17th St., Phila. Work contemplated.

Church and Parish House, Tyson and Van Dyke Sts., Tacony, Phila. Architect, not selected. Owner, Holy Innocence P. E. Church, Rev. W. M. Roberts, 3303 Tyson St., Phila. Stone, 1 and 3 stories. Work contemplated. Raising funds.

Parish House, site not selected. Architect, not selected. Owner, St. Ambrose P. E. Mission, Rev. F. B. Halsey, 333 High St., Phila. Work contemplated.

Parish House, East Venango and Edgemont St., Phila. Architect, not selected. Owner, St. George's P. E. Church, Rev. A. H. Hord, on premises. Work contemplated.

Parish House, W. Rittenhouse and McCallum Streets, Phila. Architect, not selected. Owner, St. Barnabas P. E. Church, on premises. Stone, 1 story, 40x70 feet. Work contemplated.

Residence, N. side Grant Ave., W. of Clark St., Phila., $4,000. Architect, private plans. Owner, B. Harold Worthington, Clark St., Bustleton, Phila. Frame, 2 stories, 19 feet 4 inhes by 42 feet, pine floors, hot air heat, electric light. Permit issued.

Penna. R. R., Phila. Contracts Nos. 73 and 74. Bids due Dec. 15th. Rail Bonds 34 inches and 40 inches. Bids due Dec. 16th.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Store (alts. to Bank), 6227 Lancaster avenue, Philadelphia Architect, Norman Hulme, 1524 Chestnut street, Philadelphia Owners, Susquehanna Title & Trust Co., 1611 Susquehanna avenue, Philadelphia. New limestone front, interior alterations, changing in heating and lighting, composition floors, bronze work, grills. Contract awarded C. S. A. Booth, 4355 Frankford avenue, Philadelphia, who is taking sub-bids.

Apartment and Stores, Seventh and Bainbridge streets, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, Mitchell Goldman, 1702 Walnut street, Philadelphia. Brick, steel, cement work, steam heat, electric light, metal lath, tile and marble work, slag roof, oak floors, ornamental iron work, demolition, painting and glazing, stone work. Contract awarde dB. Brnstein, Belfield and Wingohocking streets, Philadelphia.

Church, Northeast Corner Fifty-eighth and Springfield streets, Philadelphia. Architect, Horace W. Castor, Stephen Girard Building, Philadelphia. Owners, Berry Methodist Episcopal Church, R. McConnell, Sixty-first and Greenway, Philadelphia. Stone, cut stone, steel, limestone, 1½ stories, balcony and basement, hollow tile, steam heat, electric light, tile and terrazzo work, bond, ornamental iron work, iron stairs, demolition, architectural terra cotta, membrane waterproofing. Contract awarded H P. Schneider, 3713 Old York road, Philadelphia.

Residence, Henry road and Queen Lane, Philadelphia. Architect, John W. Keyes, 1520 Locust street, Philadelphia. Owner, T. Harry Keon, Manheim Apartments, Germantown, Philadelphia. Stone, 2½ stories and basement, 25x60 feet, wing 17x25 feet, shingle roof, oak and pine and linoleum floors, hot water heat, electric light, metal lath, rolled steel sash, ornamental iron work. Contract awarded Samuel Harting & Son, 20 East Johnson street, Philadelphia.

Garage and Apartment, 8005 Palmetto street, Fox Chase, Pa. Architects, Lippincott and Schaef, 11 South Sixteenth street, Philadelphia. Owner, William Amos, care of architects. Stone, brick, frame, 2½ stories and basement, 19x24 feet, shingle roof, cement and pine floors, hot water heat, electric light. Contract awarded George W. Botsford, 2401 North College avenue, Philadelphia.

Cottage C (alts), Fairthorn street, East of Ridge avenue, Philadelphia. Architects, Boyd, Abel & Gugert, Otis Building, Philadelphia. Owners, Fairmount Farms, on premises. Stone, electric light, carpentry and mill work, plastering, hardware, cement work. Contract awarded E. E. Hollenback, 1910 North Marshall street, Philadelphia.

Cafeteria (alts. and add.), Northwest Corner Eighth and Chestnut streets, Philadelphia. Architect, Fred N. Greisler, 1035 Walnut street, Philadelphia. Owner, C. M. Wessels, 917 Chestnut street, Philadelphia. Composition floors, carpentry and mill work, metal ceilings. Contract awarded Home Improvement Co., Inc., 226 South Fifteenth street, Philadelphia.

New Roof and Siding on Railroad Siding Connecting Two Buildings, Fifth and Glenwood avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, S. L. Allen & Co., on premises. Structural steel, 1 story, 190x20 feet, gypsum roof. Contract awarded P. Haibach Cont. Co., 1261 North Twenty-sixth street, Philadelphia.

Store Building (alts. and add.), Thirty-seventh and Walnut streets, Philadelphia. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owners, Sporkin & Fleisher, on premises. Contract awarded H. Alterman, 5949 Pine street, Philadelphia.

Service Station and Show Room, 4730-32-34 Baltimore avenue, Philadelphia, $110,000. Architect, I. W. Levin, 1011 Chestnut street, Philadelphia. Owner, A. Aiken, 145 Fairmount avenue, Philadelphia. Brick, 2 stories, 100x200 feet, slag roof, cement floors, electric work. Contract awarded to A. Brown, 145 Fairmount avenue, Philadelphia.

Store and Residence (add .and alts.), 747 North Twenty-fifth street, Philadelphia, $7,000. Architect, private plans. Owner, Peter McGee, 13 South Sixteenth street, Philadelphia. Brick, 2 stories, 18x15 feet 6 inches, general alterations. Contract awarded to Guerino-Marchini, 1344-46 Ellsworth street.

Storage Building (add.), 1104 Buttonwood street, Philadelphia, $5,000. Architect, private plans. Owner, L. Pizzoni, on premises. Brick, 2 stories add., 15x58 feet. Contract awarded to N. J. Brandolini, 1412 South Fifteenth street, Philadelphia.

Storage Building, 254 North Juniper street, Philadelphia, $3,500. Architect, private plans. Owners, J. H. McCullough & Sons, 257-59 North Broad street, Philadelphia. Brick, 2 stories, 18x100 feet. Contract awarded to W. N. Manuel, 5849 Ellsworth street, Philadelphia.

Residence (alts.), 6725 Ridge avenue, Philadelphia, $3,200. Architect, private plans. Owners, Fairmount Farms, on premises. General alterations. Contract awarded to D. H. Wetzel, 590 East Jamestown avenue, Philadelphia.

Store, 6437 Rising Sun avenue, Philadelphia, $3,000. Architect, private plans. Owner, Joseph Friedman, 4831 North Twelfth street, Philadelphia. Brick, 1 story, 25x60 feet, slag roof, pine floors, electric light. Contract

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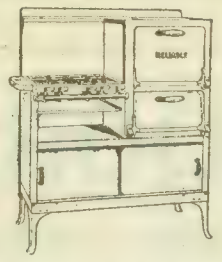
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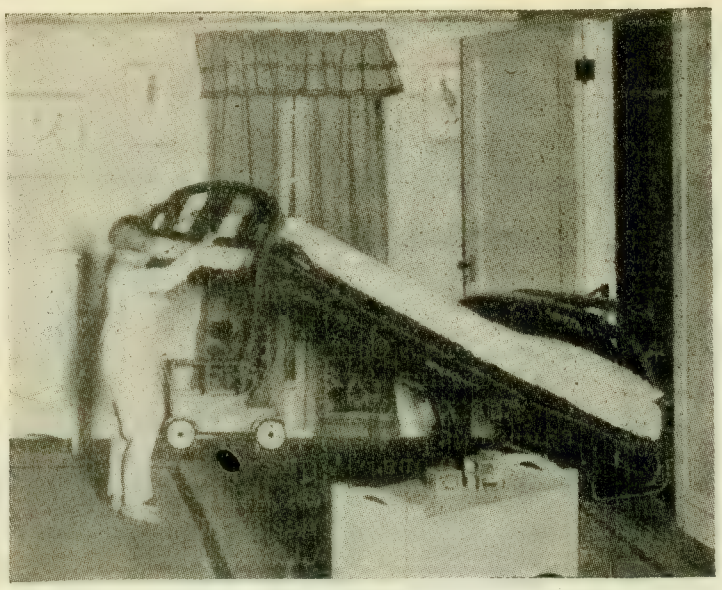
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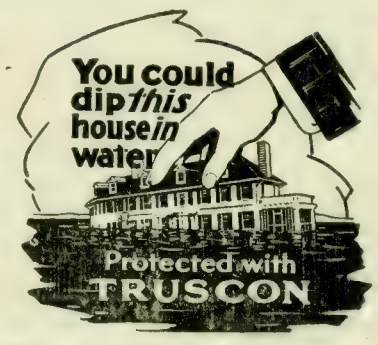
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awarded to M. Singer, 430 Snyder avenue, Philadelphia.

Shop and Storage Building (alts.), 258 South Seventeenth street, Philadelphia, $2,000. Architect, private plans. Owners, Franklin, Inc., on premises. General alterations. Contract awarded to E. R. Hall, 34 South Seventeenth street, Philadelphia.

Residences (5), South side Princeton avenue, East of Montague street, $27,000. Architect, private plans. Owner, Joseph Andress, Fillmore and Large streets, Philadelphia. Brick, 2 stories, 14x26 feet, 12x22 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Benjamin Zorochoff, 7046 North Broad street, Philadelphia.

Laundry (add.), 315-17 North Fifty-seventh street, Philadelphia, $2,700. Architect, private plans. Owners, Ronzzalin Brothers, on premises. Brick, 1 story add., 14x25 feet. Contract awarded to V. K. Builders, 5816 Haverford avenue, Philadelphia.

Manufacturing Building, Southwest Corner J and Estaugh streets, $225,000. Architect, private plans. Owners, William Brown Co., J and Ontario streets, Philadelphia. Brick, 3 stories, 97x200 feet, steam heat, electric light, steel sash. Contract awarded to Harry Brocklehurst, 512 West Norris street, Philadelphia.

Garage, Northeast Corner Eighteenth and Cambria streets, Philadelphia, $100,000. Architect, H. B. Weldon, 1817 Callowhill street, Philadelphia. Owner, Edward M. Harris, 2218 Chestnut street, Philadelphia. Brick, 1 story, 195x200 feet, steam heat, electric light, cement floors, steel sash. Contract awarded to Smith-Hardican Co., 1809 Callowhill street.

Residence (alts.), 4000 Spruce street, Philadelphia, $10,000. Architect, private plans. Owner, Joseph Spector, 2229 Mt. Vernon street, Philadelphia. General alterations. Contract awarded to Rubin Salkever, 628 South Twenty-first street, Philadelphia.

Store and Storage (add.), 2034 Germantown avenue, Philadelphia, $3,200. Architect, private plans. Owner, Louis Forman, 602 Lincoln Building, Philadelphia. Brick, 3 stories add., 25x28 feet. Contract awarded to I. Farbstein, 917 Ritner street, Philadelphia.

Residence, Vernon road, West of Milton street, Philadelphia, $11,700. Owner, A. Gentel, 4612 Green street, Philadelphia. Stone, 2 stories, 27x40 feet, slate roof, hardwood and pine floors, electric light, tile work. Contract awarded to Charles Sinn, 5518 American street, Philadelphia.

Garage, South side Kingsley street, West of Mitchell street, Philadelphia, $6,000. Architect, private plans. Owner, John Pearson, 481 Kingsley street, Philadelphia. Brick, 1 story, 68x32 feet, slag roof, cement floors, electric work. Contract awarded to J. G. T. Miller, 3136 North Taylor street, Philadelphia.

Residence and Store (add.), 460 East Wyoming avenue, Philadelphia, $7,000. Architect, private plans. Owner, Robert Pinkerton, 460 East Wyoming avenue, Philadelphia. Brick, 1 story add., 15x65 feet, slag roof, pine floors. Contract awarded to Joseph A. Merz, 1509 North Thirteenth street, Philadelphia.

Residence and Store (alts.), 2633 West Lehigh avenue, Philadelphia, $3,000. Architect, private plans. Owner, Annette Stansfield, 2633 West Lehigh avenue, Philadelphia. General alterations. Contract awarded to David Bass, 2103 North Franklin street, Philadelphia.

Residence (add and alts.), S. E. Cor. 8th and Susquehanna Ave. Architect, private plans. Owner, D. Finegold, 2167 N. 8th St., Phila. Brick, 1 story, 17x16 feet, general alterations. Contract awarded to B. Silk, 900 Susquehanna Ave., Phila.

Storage Building (alts.), S. W. Cor. 11th and Indiana Ave., Phila., $12,000. Architect, private plans. Owners, Bell Telephone Co., 19th and Arch Sts., Phila. General interior alterations. Contract awarded to Knox-Landers Co., 1132 Vine St., Phila.

Residence (add.), N. side Allens Lane, W. of Wissahickon Ave., $6,000. Architect, Mrs. E. C. Lukens, Allens Lane, W. of Wissahickon Ave. Owner, Mrs. Frank Miles Day, on premises. Stone, 3 story addition, 21 feet 4 inches by 25 feet, oak and pine floors, slate roof. Contract awarded to Samuel Harting & Son, 20 E. Johnson St., Phila.

Pennsylvania Construction News

Equipment, Court House, Norristown, Pa. Architect, private plans. Owner, Montgomery Co. Comm., W. C. Irvin, Norristown, Pa. Motor generator set, pressure reducing valves. Deposit $10.00 each set. Refunded Owner taking bids due Dec. 13th.

Parish House, Bustleton Ave., Somerton, Pa. Architect, not selected. Owner, St. Andrew's P. E. Church, Rev. C. E. Spalding, Somerton, Pa. Work contemplated.

Convent, Mt. Carmel, Pa. Architect, Paul Monaghan, 1520 Locust street, Philadelphia. Owners, St. Joseph's Roman Catholic Church, Mt. Carmel, Pa. Preliminary sketches drawn.

Church, Palmyra, Pa., $70,000. Architect, Albert N. Dobbins, 1718 Cherry street Philadelphia. Owners, Palm United Lutheran Church, Palmyra, Pa. Stone, steam heat, electric light, slate roof, maple floors. Preliminary plans being revised.

Residence, Swarthmore, Pa. Architect, J. Linerd Conaroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Hollow tile, stucco, 2½ stories, 38x40 feet, wood shingle roof. Plans in progress.

Masonic Temple, King and Franklin streets, Pottstown, Pa., $90,000. Architect, A. S. Kepner, Pottstown, Pa. Owners, Masonic Temple Association, George A. Hunsberger, president, 266 Walnut street, Pottstown, Pa. Brick, limestone, 3 stories, 60x90 feet, steam heat, electric light. Plans in progress.

Eastern Penitentiary, Skippack, Pa. Owners, State of Pennsylvania, Department of Public Welfare, Harrisburg, Pa. Site selected.

High School (add.), Carlisle, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Carlisle School Board, Thomas Vale, secretary, Carlisle, Pa. Brick, steel, concrete, 2 stories, 202x62 feet, built-up roof, maple and composition floors, hollow tile, safety treads, roof ventilatrs, waterproofing, cut stone, iron stairs, ornamental plaster, steel lockers, partitions, steel sash, tile work, metal lath (plumbing, heating and electric separate). Owners taking bids.

Y. M. C. A. Building, Lancaster, Pa. Architect, C. E. Urban, Woolworth Building, Lancaster, Pa. Owners, Y. M. C. A., care of ar-

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chitect. Fireproof, 4 stories, 69x60 feet, built-up roof, hardwood floors, hollow tile, roof ventilators, ornamental iron, iron stairs, tile and marble, metal lath, steam heat, electric light. Architect taking new bids.

Shop Building, Lancaster, Pa. Architect, H. Y. Shaub, 20½ North Queen street, Lancaster, Pa. Owner, Oscar Funk, 1237 East King street, Lancaster, Pa. Concrete block, steel, 1 story, 40x100 feet, slag roof, steam heat, concrete floors, electric work, steel sash and skylights. Architect taking bids.

Residences (2), Haverford, Pa. Architect, J. Linerd Conaroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Hollow tile, stucco, 3 stornes, 23x45 feet, shingle roof, hardwood floors, hot water heat, electric light, tile work. Metzger, Fisher & White, Otis Building, taking sub-bids.

Garage, Mahoney City, Pa. Architect, William H. Lee, Schaff Building, Philadelphia. Owners, Graham Garage & Supply Co., Mahoney City, Pa. Brick, concrete, steam heat, electric light, slag roof, cement floors. Plans completed. Architect ready for bids.

Roosevelt School (alts.), Marshall, Zelma and Forrest avenues, and **Washington School,** Norristown, Pa. Architect, Oliver Randolph Parry, 1524 Sansom street, Philadelphia. Owners, School District of Norristown, C. I. Moore, Norristown, Pa. Brick, 2 stories, slag roof. Plans in progress. Ready for bids December 20th.

Residence, Swarthmore, Pa. Architect, J. Linerd Conaroe, 225 South Sydenham street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 52x40 feet, variegated slate roof, hardwood floors, hot water heat, electric light, tile work, steel casement sash. Plans in progress. Ready for bids in two months.

Church Building, Lincoln Highway and Church street, Coatesville, Pa. Architect, Peter Getz, Victory Building, Philadelphia. Owners, St. Stanislaus Kostka's Church, Rev. A. Klijanowicz, Coatesville, Pa. Architect taking bids due Dec. 9th at noon.

School, Shartlesville, Pa. Architect, H. Raymond Heckman, Baer Building, Reading, Pa. Owners, Upper Bern School District, John S. Berger, secretary, Shartlesville, Pa. Brick, 1 story and basement, 58x83 feet, slag roof, composition floors, roof ventilators, metal weather strip, bond, metal lath, warm air heat (heating, plumbing and electric separate). Will be ready for bids next week.

Apartment Building, Front and Harrison streets, Harrisburg, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owner, C. J. Lappley, Parkside Building, Harrisburg, Pa. Fireproof, 6 stories, 150x150 feet, slag roof, composition and maple floors, elevators, ornamental iron, iron stairs, incinerator, refrigeration, tile and marble, metal lath, steam heat, electric light. Architect will take sub-bids.

Garage, Third and Court streets, Reading, Pa. Architect, G. L. Gerhard, 447 South Fifteenth street, Reading, Pa. Owners, Hettinger Brothers, 249 Penn street, Reading, Pa. Brick, steel, concrete, 2 stories and basement, 60x90 feet, gypsum roof, concrete floors, steam heat, electric light, metal lath, steel sash, fire doors. Owners ready for sub-bids.

Residence (alts. and add.), Bryn Mawr, Pa. Architect, Louis Rush, Middle City Building, Philadelphia. Owner, Mrs. N. D. Grange, on premises. Stone, stucco, 2½ stories and basement, 38x116 feet, wing 22x43 feet ,slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Architect taking bids due December 14th.

School (alts.), Cheyney, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Cheyney Training School for Women, Cheyney, Pa. Brick work, cement block, cement work, plastering, sheet metal work, carpentry and mill work, stair work, hardware, painting and glazing, kalamein doors, rolled steel sash, metal lath, iron work. Architects taking bids due December 10th.

Residence (alts. and add.), Oak Lane, Pa. Architects, Thalheimer & Weiss, 10 South Eighteenth street, Philadelphia. Owner, Dr. A. I. Fellman, Oak Lane, Philadelphia. Carpentry and mill work, metal lath, electric light, plastering, painting and glazing, hardware, metal lath, plumbing, ornamental iron work. Architects taking bids due December 10th.

Store Building, Jenkintown, Pa. Architect, private plans. Owner, Morris Goldberg, Jenkintown, Pa. Lessee, F. W. Woolworth, Wilkes-Barre, Pa. Brick, steel, 2 stories and basement, 28x100 feet, slag roof, pine floors, steam heat, electric light, metallath. Owner taking bids due December 10th.

Residence and Farm Group, Valley Forge, Pa. Architect, J. Emlen Bullock, 142 Allen's Lane, Philadelphia. Owner, name withheld. Stone, brick, frame (plumbing, heating, electric reserved), slate and tin roof, concrete and wood floors, vapor heat, electric light, fire doors, metal window guards, metal weather strips, fire extinguishers, dampproofing, wire work, ornamental iron work, floor hardener. Residence, 3 stories, 35x80 feet. Barn, 33x50 feet, 8-car garage. Farm house and chauffeur house. Architect taking bids due December 10th.

Theatre, Pottsville Pa. Architect, William H. Lee, 1505 Race street, Philadelphia. Owners, Chamberlain Amusement Co., Pottsville, Pa. Owners taking bids due December 14th for plumbing, heating and electric work.

Pennsylvania Contracts Awarded

Residence, Villa Nova, Pa. Architect, R. Brognard Okie, 306 S. Smedley street, Philadelphia. Owner, Louis H. Parsons, care of architect. Stone, 2½ stories and basement, 55x21 feet, 20x23 feet, wing 20x20 feet (plumbing, heating, electric reserved), shingle roof, oak and pine floors, mill work, painting and glazing, metal weather strip. Contract awarded J. M. Rossiter, Wayne, Pa.

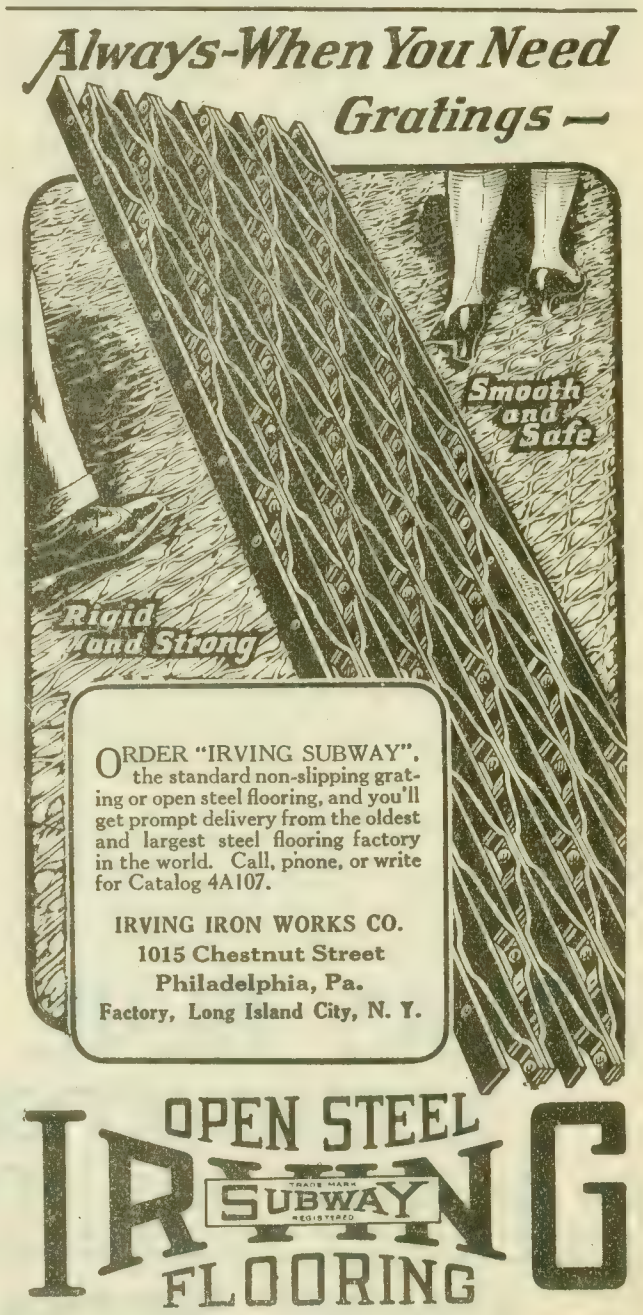
Residence, Goshen Church, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Mr. Samuel B. Eckert, care of architect. Stone, cut stone, flagstone, cement floors, carpentry and mill work, oak and pine floors, plastering, metal lath, painting, glazing, metal lath, repairs to roof, iron work, metal weather strip (plumbing, heating, electric reserved). Contract awarded Harry W. Farra, Lansdowne, Pa.

Residence No. 10, Rosemont, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories, 31x81 feet, slate roof, hardwood floors, plumbing, tile work. Contract awarded J. E. Kearney, Wynnewood, Pa.

Warehouse, North Cameron street, Harrisburg, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, Standard Iron & Steel Co., Harrisburg, Pa. Fireproof, 2 stories and basement, 40x100 feet, slag roof, concrete floors, hollow tile, freight elevators, steam heat, electric light, metal lath, steel sash, fire doors. Contract awarded to W. E. Bushey, Lemoyne, Pa.

Bank and Residence, Reamstown, Pa. Architect, H. G. Mohn, Mohnton, Pa. Owners, Reamstown Exchange Bank, A. K. Heintzinger, president, Reamstown, Pa. Brick, terra cotta, 2 stories, 48x52 feet, asbestos roof, hardwood floors, electric light, tile work, vault, bronze work. Contract awarded to Samuel Snyder, Denver, Lancaster County, Pa.

Residence (add. and alts.), Reading, Pa. Architects, Muhlenberg Brothers, 511 Penn street, Reading, Pa. Owner, C. M. Guthrie, Sheerlund, Pa. Stone, 2 stories, various sizes, slate roof, hardwood floors, vapor heat, oil burner, electric light, tile work. Contract awarded to D. H. Hunter, 825 Mulberry street, Reading, Pa.



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Manufacturing Building, Hanover, Pa. Architects, Swartz & Keyworth, York, Pa. Owners, Leschey-Meyers Co., care of architects. Brick, steel, 1 story, 325x135 feet, slag roof, cement and wood block floors, rolled steel sash and skylights, fire doors, ornamental iron. Contract awarded to O. H. Hostetter, Hanover, Pa.

Residence, Brookline, Pa. Architect, Andrew C. Borzner, 717 Walnut street, Philadelphia. Owner, Mark Miller, Brookline, Pa. Stone, stucco, 2½ stories, 27x43 feet, electric work. Contract awarded to D. Ridgeway Evans, Penfield, Pa.

New Jersey Construction News

Apartment House (60 Family), Camden, N. J. Architect, Wm. Wrifford, 724 Washington St., Camden, N. J. Owner, Lincoln Apts. Corp., Frank Sozzie and Harold Wright, 1010 Wilson Bldg., Camden, N. J.

School, West Millville, N. J. Owner, Board of Education, care Supt. of School, Mr. Unger, Millville, N. J. Work contemplated.

Theatre, Store and Offices, White Horse Pike, Oaklyn, N. J. Architects, Hodgens & Hill, 130 South Fifteenth street, Philadelphia. Owners, William Butler & Son, Oaklyn, N. J. Brick, stone, seating capacity 750, slag roof, cement floors, hot air heat, electric light, tile work. Plans in progress.

Fire House, Hightstown, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Borough of Hightstown, Hightstown, N. J. Stone, cinder block, steel, 2 stories, 60x110 feet, slate roof, roof ventilators, concrete and linoleum floors, hollow tile, waterproofing and dampproofing, ornamental iron, iron stairs, fire doors, steel sash and skylights, tile work, metal lath, vapor heat, electric light. Plans in progress.

Church (add.), Flemington, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Presbyterian Church, care of Fred Jordy, Flemington, N. J. Stone, second story add., 30x50 feet, slate roof, hardwood floors, heating extension, electric light. Plans in progress.

Theatre, Elmer, N. J. Architect, J. E. Sindoni, Norwood and McKean streets, Philadelphia. Owner, B. A. Harrison, 3 Pine street, Westville, N .J. Brick, 1 story, 50x100 feet, seating capacity 400. Plans drawn. Work contemplated.

Cemetery, Egg Harbor Township, Atlantic County, N. J. Architect, William L. Charr, Victory Building, Philadelphia. Owners, care of architect. Stone, brick (3 chapels, Catholic, Hebrew, Protestant), 1 story, irregular in size, slate roof, marble floors, hollow tile, steam heat, electric light, metal lath, tile and marble work, hollow metal sash, kalamein doors, bond, ornamental iron work, dampproofing, terra cotta, metal weather guards, surveying and landscaping 120 acres for cemetery, caststone. Plans in progress.

Post Office (add. and alts.), Atlantic City, N. J., $360,000. Architect, J. A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Treasury Department, Washington, D. C. Authorized by Congress. Work contemplated.

Residence, Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, K. D. Dresdner, Cadwalader Apartments, Trenton, N. J. Hollow tile, stucco, 2½ stories, 20x70 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architects ready for bids.

Residence, Morris Heights, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Oscar Davison, Hamilton and Anderson streets, Trenton, N. J. Cinder block, stucco, 2 stories, 33x45 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Plans in progress. Architects ready for bids.

Municipal Building, Ocean Gate, N. J., $7,500. Architect, S. J. Laschenski, Harrison Building, Philadelphia. Owners, Borough of Ocean Gate, N. J. Concrete block and frame, 1 story, asbestos shingle roof, cement floors, electric light. Plans about completed. Ready for bids in one week.

Apartment Building and Store, Merchantville, N. J., $170,000. Architects, Edwards & Green, Camden, N. J. Owner, Donald W. Black, 323 Market street, Camden, N. J. Brick, hollow tile, 3 stories and basement, will contain four stores and 44 apartments, electric light, hardwood and composition floors, tile and marble work, metal bulks, plate glass. Plans in progress. Owner will take subbids.

Office, Apartment and Garage, Ocean City, N. J. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Keyhan Realty Co., Tenth and Asbury, Ocean City, N. J. Brick, 2 stories, 2 wings, 30x50 feet, 20x40 feet, slag roof, hot water heat, electric light, tile work, cement and tile floors. Owners taking bids due as soon as possible .

Palace Theatre (alts. and add.), Glassboro, N. J. Architect, David Supowitz, 929 Chestnut street, Philadelphia. Owners, East Coast Theatre Corp., care of architect. General remodeling, steam heat, electric light, Spanish tile roof, cement, ornamental plaster. Architect taking bids due December 10th.

Convention Hall, Atlantic City, N. J. Architects, Lockwood, Greene & Co., Inc., 1 Pershing Square, New York. Owners, City of Atlantic City, H. T. Headley, City Hall, Atlantic City, N. J. Engineer, A. H. Nelson, Atlantic City, N. J. Reinforced concrete, brick, cast stone, steel, 4 stories and basement. Lowest bidders: Consolidated Eng. Co., Calvert Building, Baltimore, Md., $4,686,000; M. B. Markland Co., Atlantic City, N. J., $4,694,000. Ice Skating Rink—Pennsylvania Eng. Co., 1119 North Howard street, Philadelphia, $181,000. Plumbing, W. G. Cornell & Co., Twenty-fifth and Parkway, Philadelphia, $140,200. Heating, John Cooney, Harrison, N. J., $510,812. Electrical, Electrical Equipment Co., Atlantic City, $456,000.

Employees' Building, Greystone Park, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Lowest bidders: C. J. Smith Const. Co., 202 Academy street, Trenton, N. J., $307,018; Nora & Nora Const. Co., New Brunswick, N. J., $314,200. Plumbing, Jaehnig & Peoples, Newark, N .J., $18,500. Heating, J. T. Evans, Wilkes-Barre, Pa., $22,084. Electric, Biehl & Carey, $7,740.

Occupational Therapy Building, Greystone Park, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Lowest bidders: J. J. O'Leary, Passaic, N. J., $60,850. Plumbing, Jaehnig & Peoples, Newark, N. J., $2,495. Heating, Jaehnig & Peoples, Newark, N. J., $9,090. Electric, Victor Electric Co., Elizabeth, N. J., $1,032.

Cottage for Women, Clinton, N. J. Architects, Division of Architecture and Construction, Trenton, N. J. Owners, Department of Institutions and Agencies, Trenton, N. J. Lowest bidders: Nora & Nora Const. Co., New Brunswick, N. J., $84,530. Plumbing, J. T. Evans, Wilkes-Barre, Pa., $8,546. Heating, J. T. Evans, Wilkes-Barre, Pa., $4,087. Electric, Mercer Electrical Co., Fitzcharles Building, Trenton, N. J., $3,800.

New Jersey Contracts Awarded

Stores (4), Apartments (5), Thirty-fourth and Federal streets, Camden, N. J,, $34,000. Architect, Sol Kaplan, 10 South Eighteenth street, Philadelphia. Owner, Max Marcouse, care of architect. Brick and block, 2 stories, 19 feet 11 inches x 64 feet, 19 feet 11 inches x 48 feet, 17 feet 6 inches x 43 feet, and 17 feet 6 inches x 40 feet, slag roof, hot water heat, electric light, tile work, hardwood floors, plate glass, metal bulks, wrought iron work. Contract awarded to William C. Magee, West Collingswood, N. J.

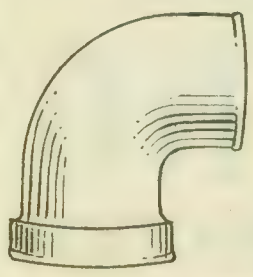
Building (add. and alts.), 448 Pine street, Camden, N. J., $10,000. Architect, Charles J. Mitchell, 15 South Twenty-first street, Camden, N. J. Owner, Jacob Goodman, care of architect. Brick, 2 stories add., 24x20 feet, slag roof, general alterations. Contract awarded to S. Levy, 1214 Kaighn avenue, Camden, N. J.

New Store Front and Garages (7), 428 Mickle street, Camden, N. J., $2,000. Architect, private plans. Owners, Owensee Corp., Camden, N. J. Block, garages, 1 story each, 9x14 feet, slag roof, cement floors. Contract awarded to H C. Paschall, 1493 Bradley avenue, Camden, N. J.

Residences (3), Garages (2), 1243-45-47 Sheridan street, Camden, N. J., $13,500. Architect, private plans. Owner, M. J. Lawnicki, Camden, N. J., Brick, 2 stories, 14x55 feet, slag roof, hot water heat, electric work. Contract awarded to Adam Kempa, 1634 Pulaski street, Camden, N. J.

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Store (alts.), 33 Broadway, Camden, N. J., $2,000. Owner, S. Jamieson, on premises. New store windows. Contract awarded to A. Kissler, 3231 Turner street, Philadelphia.

Residence, 3212 Rowe street, Camden, N. J., $3,700. Architect, private plans. Owner, Harry Crooks, 468 North Thirty-second street, Camden, N. J. Frame, 2 stories, 22x24 feet, slate surface roof, hot air heat, electric light, pine floors. Contract awarded to Edward Christopherson, 603 North Thirty-second street, Camden, N. J.

New Jersey State Highway Work. Ocean City-Somers Point road, Cape May County. Contract awarded to William Eisenberg, Camden, N. J., $62,820.29. Reconstruction of timber trestle bridge crossing Barnegat Bay between Island Heights and Seaside Heights, Ocean County. Contract awarded to Eastern Eng. Co., Atlantic City, N. J., $300,096.10.

Miscellaneous Construction News

Church, Richmond, Va. Assoc. Architects, Frank R. Watson, 1520 Locust St., Phila., and L. R. Hartsook, Richmond, Va. Owner, St. Stephen P. E. Church, Richmond, Va. Stone, slate roof. L. R. Hartsook, Richmond, Va., taking bids.

Church, Exmor, Va., $35,000. Architect, Albert N. Dobbins, 1718 Cherry street, Philadelphia. Owners, Broadwater Methodist Episcopal Church (South), R. E. Kellam, Exmor, Va. Brick, irregular in size, slate roof. Plans in progress.

Theatre, Stores and Offices, 161 Genesee avenue, Utica, N. Y. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, Stanley-Mark-Strand Corp., J. E. Mastbaum, 1916 Race street, Philadelphia. Seating capacity 4,000. Site will be cleared early in January, 1927. Work contemplated.

Residence (alts.), Oswegatchi, near New Haven, Conn. Architect, William F. B. Koelle, Otis Building, Philadelphia. Owner, Congressman Darrow, on premises. General alterations. Architect taking bids due as soon as possible.

Department Store, Akron, Ohio. Architects, Graham, Anderson, Probst & White, 120 Broadway, New York. Owners, M. O'Neill Co., Akron, Ohio. Brick, reinforced concrete, steel. Architects taking bids due December 20th.

Church, Aurora, N Y. Architects, Charles W. Bolton & Son, Schaff Building, Philadelphia. Owners, Baker Memorial Methodist Episcopal Church, East Aurora, N. Y. Stone, steam heat, electric light, slate roof, maple floors. Architects taking bids due December 13.

Plant (add.), Wilmington, Del., $38,650. Engineers, Kiebetz & Koenig, Baltimore, Md. Owners, Wiltex Co., 10 East Twenty-second street, Wilmington, Del. Brick, concrete, steel, 1 story and basement, 214 feet 4 inches x 86 feet, saw-tooth roof, concrete and wood floors, roof ventilators, heating extension, electric light, metal lath, steel sash and skylights, fire doors. Owners taking bids.

Building (add. and alts.) to 3 Apartments, 916 Jefferson street, Wilmington, Del., $5,000. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, John B. Dunbar, 507 Shipley street, Wilmington, Del. Brick, tin roof, pine floors, hot water heat, skylights, fire escape, interior alterations. Architect taking bids due as soon as possible.

Stores (add. and alts.), location withheld. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, name withheld. Structural steel, plate glass, tile work, tile floors, metal lath. Plans in progress. Architect will take bids.

Building (alts. and add.), 1012 Washington street, Wilmington, Del. Architect, J. A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Max Keil, 2103 Boulevard, Wilmington, Del. Brick, hot water heat, oak floors, alterations into three apartments, skylights, fire escapes. Architect taking bids due as soon as possible

Residences (4), West Ninth street, Wilmington, Del., $22,000. Architect, private plans. Owner, A. Fortunato, 1337 West Fourth street, Wilmington, Del. Brick, 2 stories, 20x31 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Road Work, Delaware. Owners, State Highway Department, Dover, Del. Lowest bidders on work opened December 1st:

Contract 72A, Superstructure, Market Street Bridge over Christiana River, Wilmington, Del. Bethlehem Steel Co., Widener Building, $236,837.68.

Contract 74, Adamsville-Hickman, 2.82 miles. William Truitt, Lincoln City, Del. Stone: Metal, $67,009.62; non-metal, $66,126.64. Slag: Metal, $66,836.62; non-metal, $65,951.62.

Contract CS56, Greenwood-Adamsville, 4.28 miles. William W. Truitt, Lincoln City, Del. Stone: Metal, $94,947.65; non-metal, $93,817.65. Slag: Metal, $94,814.65; non-metal, $93,684.65.

(Continued from page 776)

Humidity is almost as important in heating as is heat itself. Most factories are uncomfortable when the steam-heating system is in use. It has been proved that factory buildings which are operated at a high temperature, but at a low humidity, do not feel as warm to the body as those which operate at a lower temperature and at a moderate humidity. An increase in humidity results in a saving of steam and creates more healthful conditions.

The hot-water system is very favorably considered by some engineers. It may be of the gravity or of the forced-feed type. Gravity systems are used primarily in plants with one building. The forced-feed system, however, makes it possible to heat scattered buildings with hot water. In the design of this system, great care must be used in proportioning the size of pipes, radiators, and other equipment. Because of the lower temperatures carried, the radiators will be slightly larger for this method of heating than for the steam system.

Care should be taken that equal pressure is exerted on all radiators, so that there will be no difference in the pressure drop in various portions of the system.

One advantage of the hot-water system is the accurate control by the engineer. Located in the boiler-room, he can either increase or decrease the temperature of the water leaving the boiler-room. With the steam plant, however, each radiator has an independent value and is under the control of the operating foreman.

Hot water furnishes a very even heat and is economical when small quantities of heat are required.

Hot-water systems can be so designed that exhaust steam or industrial process heat can be utilized as a pre-heating medium. Waste can be used.

With hot-water systems, reliable pumping equipment must be provided to insure constant circulation to all portions of the plant. It is advisable to install dual systems, to provide against a shut-down of one unit.

Hot-air heaters of extremely large size have been developed for use in erecting shops, foundries, machine-shops, paper mills, and other buildings of large size and height. These heaters consist of a large bank of steam coils, which is enclosed in a housing, and through which air is circulated by a fan. The air is discharged into the room. The principle is the same as that of a unit heater. They eliminate the expensive heating system of pipe coils or radiators, and where unusually large volumes of air must be handled they are very efficient. They have the advantage of taking up a small amount of floor space, being able to heat an exceptionally large room at minimum cost.

The fans on these heaters can be either motor-driven or engine-driven. Exhaust from the engine can be turned directly into the heater. A connection with the outside provides the needed fresh air. The fan does not handle the heated air.

Often coal-fired, hot-air heaters can be substituted where it is impractical to furnish heat by steam coils.

However, many hot-air systems are being replaced by the centralized heating plant with heat distribution by steam or hot water.

Electric heat is being used for heating isolated portions which cannot be connected with the main systems. Individual heating units have been perfected for watchmen's houses, gate houses, elevator houses, and other remote portions of the

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plant. A small electric-heating unit, attached to the lighting system or the power circuit, will overcome many difficulties which plant men experience through the freezing up of sprinkler pipes or the water system.

There has been considerable discussion as to the relative efficiency of transmission of heat through a steam coil or through a cast-iron radiator. Which is the best method depends upon the size of the pipe coils or radiators, the velocity of air passing over the radiators, and the temperature difference between the steam or water inside the radiators and the room. It has been found, however, that the heat given off by various types of radiation will vary from 1.5 B.t.u. to 2.5 B.t.u. transmitted per hour per degree difference in temperatue, per square foot of surface. For hot water 1.5 B.t.u. is used.

A rough estimate of the amount of steam condensed in a radiator can be obtained by assuming that .3 of a pound of steam will be condensed per square foot of heating surface per hour, when operating at about 3 pounds gage pressure.

The Importance of Adequate Ventilation

The ventilation problem in connection with heating buildings is just as important as that of supplying the heat itself. Most large office buildings, especially those where many people congregate, have a dual system of heating and ventilating. The cast-iron type of the wall type of radiation supplies the heat and a secondary system of ventilation furnishes warm air in winter and cool air in summer. These ventilating systems are designed to provide an air change at least once or twice an hour, depending upon the conditions. Air changes as high as once in five or ten minutes are sometimes advisable in rooms where many people congregate. Employees will work much better when housed in buildings where an adequate supply of fresh air can be maintained.

State ordinances generally definitely define the number of cubic feet of fresh air per person which must be pumped into buildings, the temperature which must be maintained, and various other working conditions applying to female employees. In some instances state ordinances specify humidity conditions.

The steam portion of the ventilating system is usually independent of the heating system, operating entirely automatically from thermostats placed in the various ducts or rooms about the plant. The air for office buildings, theaters, and hospitals is generally taken from the outside, passed through a system of filters and then through a bank of steam coils, where it can be distributed through a series of ducts to the entire building, at velocities which will create the required air change.

In addition to this system of heated air supply, there is usually a companion system of ducts, with a fan on the roof to remove the contaminated air. Sometimes these systems are combined by means of an air washer or filter, whereby the heated air removed from the building by the exhaust fan can be recirculated through the heating duct. The maintenance expense is rather small because the equipment is compact. The fan and driving mechanism constitute the only moving parts. A building can be warmed in a very few minutes in the early hours of the winter mornings by providing an adequate number of steam coils, through which steam is supplied at various pressures.

This results in a saving in coal, since it is unnecessary to keep the steam on all night in the wall-type radiation.

Automatic controls for humidity systems have been perfected to such an extent that they prove very accurate for practical operations in connection with heating systems. This is particularly true in those plants in which, because of the process work, it is necessary to keep the humidity constant.

The design of a factory building has much influence on not only the first cost of the heating system, but also on its operating cost. Engineers and owners should work together in this matter.

Such items as the glass area, the size of the roof, the material with which the building is to be built, the height of the ceiling, the width of the building, the manufacturing processes themselves—all affect the location, size, and method of operation of the heating system.

Whether the building is of the single-story or the multi-story type is important in deciding on the type of heating system. A single-story building spread over a large area presents extreme radiation losses through a large exposed roof. A multi-story building can be heated by less radiation per cubic foot than can a single-story building of the same volume.

Skylights Increase Heat Losses

Roofs frequently have massive skylights, with ventilators attached. Thus we have large areas of good heat conductors, increasing the heat loss. Insulation of roofs not only saves in the coal bill, but it eliminates the condensation liable to collect on the roof where steam is used in process work.

Exposed factory buildings will require more steam and will have a greater area of radiation than those which are surrounded by buildings of equal height. Buildings which are located on a water front, exposed to the full sweep of the wind, find heating extremely expensive.

The modern type of concrete buildings, with extremely large window area, requires more radiation per cubic foot of volume than any other type of structure. This factor has brought into use cast-iron wall radiation, because large areas of radiation can be concentrated in a small space and can be placed under the window between the sill and the floor.

Wind velocities and wind directions must be considered in obtaining a uniform distribution of heat.

The conditions of the windows and other exposed fixtures can affect the coal bill greatly. Reduction of air infiltration is important not only in reducing the expense of heating but in maintaining the health of employees. Wooden sashes which are so loose as to rattle in their frames should receive the constant attention of the maintenance department. Air changes of three or four times an hour are possible where the windows are not tight. Metal weather-strips are used to advantage on wooden sash. This applies also to steel sashes which are poorly erected. Some of the steel members can become bent in construction, the ventilators do not fit, and the frames are not set properly in the concrete pilasters. In brick buildings, it is possible to calk the joint sides between the brickwork and the wooden sash with a plastic cement.

The amount of air which leaks through a building depends primarily on the difference in temperature between the inside and outside of the building, as well as on the velocity of the outside air.

Factors Affecting Cost of Heating

The height of ceilings has a material effect on the cost of heating. The larger the cubical contents, the greater amount of air which must be heated, the greater the air losses, and, consequently, the larger is the heating system required.

The effect of the sun's rays on large exposed areas of glass will materially assist in heating buildings. It has been my experience in heating large reinforced-concrete factories that when the sun is shining it is possible to shut the steam off much earlier than on a cloudy day.

The type of work carried on affects the heating. Rooms in which table work and light manufacturing is performed require a higher ratio of radiation per cubic foot of volume than those rooms where the work requires considerable exertion, as for instance in woodworking shops, machine-shops, and foundries.

Then again we must consider the heat given off by forges, electric heating apparatus, gas ranges, and even the heat of friction of such apparatus as motors, generators, transformers, and line shafting.

The heat given off by employees is an important factor. Whereas an ordinary gas flame will give off between 3,000 and 4,000 B.t.u. per hour, an operator at work will furnish between 400 and 500 B.t.u. per hour. It is also interesting to note that one B.t.u. results from every 778 foot-pounds of work expended.

Then we have the effect of heat given off through radiation of steam pipes, hot-water lines, return lines, process-steam equipment, cooking kettles, and steam engines.

Although experience determines the location of the radiation about the room, there are certain basic principles which must always be employed. Where practical, radiation should be placed under the windows, so that the heated air can pass by the window, warming the air which filters through the cracks and crevices before it has a chance to settle to the floor and to chill emloyees in the immediate vicinity. It is good practice to place wall radiation at least three or four inches from the wall, thus allowing all portions of the heating sytem to give off heat to the circulating air.

All building materials and equipment shown at the 1927 annual New York and Chicago "Own Your Home Expositions" must submit to a severe test before they are accepted by the management under a new policy laid down in each city.

The organization of these annual Expositions is becoming more rigid each year, and certain manufacturers who are entirely reputable will not measure up to the high standards now required by the Expositions. At the New York Ninth Annual Exposition to be held in Madison Square Garden, February 19th to 26th, 1927, and the Seventh Annual Exposition to be held in Chicago at the Coliseum,, April 2nd to 9th, this plan will be known as an "Inspection Before Acceptance For Exhibition."

Commenting on this action, Robert H. Sexton, Managing Director, who inaugurated these comprehensive shows nine years ago, says:

"The Exposition management believes that it should not assume a competency it does not have in judging material values. As a result of this decision there will be accepted for exhibit only building materials that are included in the official classification covering the character of building materials eligible for exhibit, and then only after each individual concern has been approved and recommended by the exhibit committee under whose classification it belongs. Following this we now require a test of material quality by the Architectural Committee on Management, whose final approval is necessary before the product is accepted for exhibit.

"While this precautionary condition has been adopted to even more completely protect the interests of those for whom 'Own Your Home' Expositions primarily are conducted, as well as for the protection of legitimate manufacturers and dealers in building materials and equipment, every encouragement is given through the Exposition for the production and use and exhibit of other suitable materials, when such materials, through tests under proper engineering supervision, have proven of substantial value."

"A Court of Homes," featuring an artistic grouping of a number of full sized homes built in the various accepted and proper materials, will be a feature of both Expositions. "The Court of Homes" is being planned in a way that will interest architects and builders, as well as prospective home owners. The houses will be of concrete, masonry, brick, frame, stone and other materials that have demonstrated their worth, permanency and economy. The selection of the architectural designs and the actual construction will be supervised by Architectural Committees, composed of eminent architects.

New Exhibit Committees are being appointed to supervise the various divisions in the Exposition that include home financing, planning, building, equipping, furnishing and landscaping. These exhibits are being assembled under the Exposition "Code of Ethics" which bars all irrelevant displays, stunts and circus features, and which provides for all of the methods, materials, products and equipment that enter into the modern home. This "Code of Ethics" was drawn two years ago by the Expositions, and some forty national trade organizations and associations, and it has been altered this last Summer to bring it up to date with recent advances made in the home building field. This document is the Constitution of the Expositions and works for the protection of the thousands of prospective home owners who attend the Expositions and the twenty-five or thirty trades represented by the Exhibitors.

Sale of exhibit space in both cities is far in excess of the amount sold at this time last year, according to reports made at recent meetings of the Committees of Administration. The Expositions are held under the auspices of the local real estate boards in each city.

THIS IS THE AGE OF RIVETED STEEL

Address Delivered by A. F. JENSEN, *President, Hanna Enginnering Works. Before Members Attending the Annual Convention of American Institute of Steel Construction, Incorporated, Held in White Sulphur Springs, West Virginia on October 27th*, 1926.

The comparison of welding with riveting is the natural result of the development of a new manufacturing or construction process to meet the competition of existing methods. Let us divide this comparison under the headings of *Cost, Dependability: Introducing a Method to the Industry; Effect of Both Methods on the Worker and the Public;* so well as *The Future Development of Both Arts.*

Riveting is one of the oldest arts and there are no intangibles when considering its application. Accurate data is available regarding every phase and type of riveting; inaccurate assumptions on the riveting side of the comparison are inexcusable. Welding, however, has not progressed to a point where authentic data is available, leaving this side of the comparison to be based upon assumptions only.

It is evident the manufacturers of welding equipment have determined the labor cost of making a seam of given length and kind, which cost is merely one factor of the final cost. The determination of this final cost should naturally rest with the structural steel industry. The present activity of the American Bridge Company in fabricating and erecting a five story steel building for the Westinghouse Company will provide some cost data, but must not be construed as an acceptance by them of the process.

Claims of lower cost and superiority of product must be demonstrated by actual performance of plant and equipment wherein welding is used for joining plates, shapes, bars, etc., of the type constituting the nation's tonnage. Whether the welding of structural steel members holds advantages over the rivited structure can only be determined by undertaking its fabrication on an every day commercial basis.

In seeking information on the dependability of welding one naturally turns to the industry with experience in that process. Extensive data on both riveting and welding has been accumulated by the Bureau of Locomotive Inspection of the Interstate Commerce Commission and we quote the following from an informal talk by A. G. Pack, which appeared in the April 26, 1926, issue of *The Daily Metal Trade* reporting the annual meeting of the American Welding Society:

> "Another expression on the inadequacy of the present information on welding was voiced by A. G. Pack, chief inspector of locomotives, Interstate Commerce Commission. He said flatly that the use of welding has not had uniform results on the railroads of the country. * * * Mr. Pack thought that until he could feel sure that welding is safe, and that the safety of the weld is something that does not depend entirely on the training and skill of each individual welder, he could not conscientiously encourage welding in connection with locomotive repairs."

Again we quote Mr. Pack, this time from his recent address before the Traveling Engineers' Association in Chicago, in which the following analyses of failures are quoted:

> *"Boiler barrel:* Circumferential cracks developed in the solid plate at the edge of welding which had been applied to seal the caulking edge of circumferential seams. Of five similar boilers treated in this manner three

failed to such an extent that they could no longer be used, the remaining two were then retired from service in order to prevent the possibility of further trouble."

"Boiler back head: Fusion welded crack in back head failed. Failure occurred while the locomotive was hauling a passenger train at an estimated speed of 35 miles per hour. The escaping steam and water seriously scalded the engineer and compelled him to leave the cab without being able to close the throttle or apply the brakes. The engineer, mortally injured, climbed out over the running board and stopped the train by opening the angle cock on the front end of the locomotive."

He concludes his address with—

"I do not desire to be understood as opposing fusion welding when properly and discretly used, and believe that it has a very wide and useful field. If we are to profit by the experiences of others, we must give careful consideration to the result of all practices and methods. The extreme to which fusion welding has been carried is what I have taken exception to. It is not a cure-all, nor can it be used indiscriminately with safety, nor even economy."

The Locomotive, house organ of The Hartford Boiler Inspection and Insurance Company, has from time to time presented data on disastrous explosions attributable to welding. We quote from a recent issue:

"This accident again emphasizes the unreliability of autogenously welded joints for pressure vessels; and it also shows the inavisability of testing new vessels by air pressure, even at as low a pressure as 15 pounds. A riveted joint may be inspected and reasonable assurance of its soundness thereby obtained. Not so, however, with a welded joint, as the external appearance does not give a true indication of its soundness."

Again we quote from *The Locomotive,* this time its article, "Some After effects of Welding on Boilers" (July, 1925, issue):

"Eight years ago a battery of five boilers, all of which were made by a prominent and reliable manufacturer, located in the power plant of a factory developed chronic leaks along the girth seams. It was thought that sealing by welding would most readily solve the problem and so an acetylene welder was called in. This did not remedy the trouble permanently, however, and shortly after more welding was done, this time by electric arc method. All five boilers were effectually sealed by more or less of this treatment and gave practically eight years of service without any serious interruptions.

Recently the night watchman of the plant reported having heard a distinct report in the boiler room between 3 and 4 o'clock in the morning but was unable to locate anything wrong. The next day, one of the firemen reported having heard a similar noise between 11.00 A. M. and 12.00 M. Later on the same day upon getting up a few pounds presure in a boiler that had lain cold the cause of the mysterious noise was revealed. A circumferential crack was discovered in the solid plate right at the edges of the added metal on the first girth seam. At first it was believed to be a short crack about 12 inches long and subject to patching, but it was found upon investigation to extend so far around that the boiler was immediately condemned.

Realizing that the other four boilers had been treated in a like manner at the same time, some concern was felt for their safety. Internal stresses such as had ruptured the first boiler might also be present in the others, yet there was no ready way of determining this. While the question was still being debated, it was suddenly settled in a decisive manner. Within a month, two of the other boilers suffered a like failure, and under almost exactly the same conditions. Eight years of service had not removed the strains of localized heating and cooling."

A very interesting article, "Are Welded Pressure Tanks Safe?" by Mr. John S. Spicer, chief of the accident investigation section, Bureau of Inspection, Pennsylvania Department of Labor and Industry, has appeared in the November, 1925, issue of the *The Boiler Maker.* Several failures of welded air receivers are described and he concluded with "Within recent years the Department of Labor and Industry has not heard of the failure of a riveted tank when used for similar purposes under similar conditions."

Mr. A. J. Lamie, in an article, "Are Welded Pressure Vessels Safe?" in the August 31, 1926, issue of *Power* says:

"I have seen dozens of welded air tanks that exploded under normal working pressure from 200 down to 40 lbs. per square inch. In every case the initial rupture was traced to a weakness produced by the act of welding, usually embrittlement, sometimes insufficient fusing. Of the several riveted air tanks I have seen after explosion at normal working pressure, none failed in the seam. The usual cause has been internal corrosion."

Under the heading of "Impracticability of Welded Joints in Unstayed Portions of Pressure Vessels" in the May, 1926, issue of *The Boiler Maker,* Mr. R. L. Hamilton had this to say:

"Personally, I have never seen recorded a failure of a perfected riveted lap or butt joint, unless the allowable pressure of the particular vessel was greatly exceeded. But I have seen and officially known instances of failures in welded joints before half the allowable pressure had been reached and the serious objection regarding the nature of the failure is the fact that when a failure develops it generally goes the limit of the weld, completely tearing away the whole portion. Whereas, in a well riveted joint, even when the rivet shears or a portion of the plate tears between rivets, no serious results develop."

The first element to be considered in steel where fatigue resistance is a factor is ductility. Metallurgists have plotted curves which show the length of life decreases as brittleness increases. Recent fatigue tests indicate that a corroded or oxidized surface contributes to the development of fractures. Many of the defects which frequently appear in the cast metal in a weld, such as gas pockets, slag and oxide inclusions, lack of fusion, stratification or layers, seams and cracks, are such as will hasten fatigue failure. The normalized steel of a rivet is far superior to the metal in a weld cross section in respect to fatigue.

Structural engineers will welcome the results of fatigue tests upon representative welded joints where the intensity and number of load applications are given.

The rivet is the most reliable and dependable element of the engineering field and I might add the most inconspicuous. Riveted structures which have been in service for years give mute testimony to this fact and any reference to the few instances where rivets have become loose is not a constructive analysis.

Many riveted joints are made where conformance in design with good theory is impossible and the rivet is, therefore, liable to work loose. A properly designed riveted joint will not move unless the stress far exceeds that for which it was designed.

(To be Continued.)

The Annual Meeting of the Philadelphia Builders Exchange and Employers Association will be held

Tuesday, December 14th, 12.30 P. M.

at the Bellevue-Stratford Hotel, when the result of the election of Officers and Directors for the ensuing year will be announced, and when such other business will be transacted as may properly come before the organization at that time.

The speaker for the meeting will be Christian G. Norman, Chairman of the Board of Governors of the Building Trades Employers Association of the City of New York. Mr. Norman will give the inside workings among the Building Trades of New York City.

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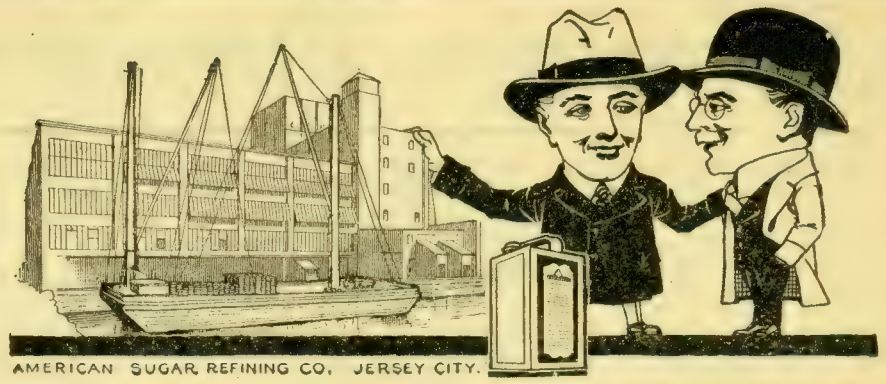
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December 15, 1926

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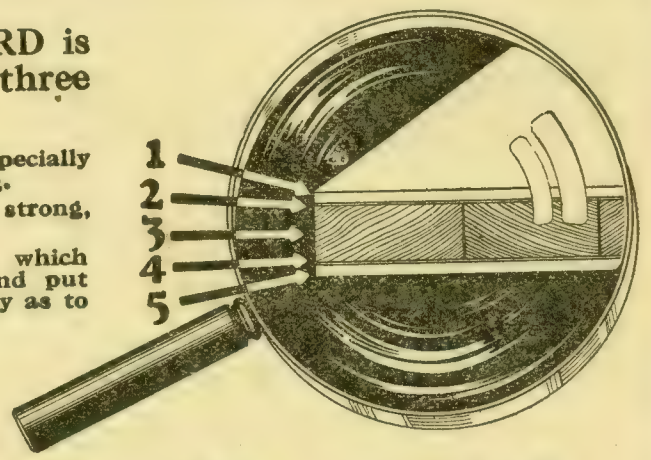
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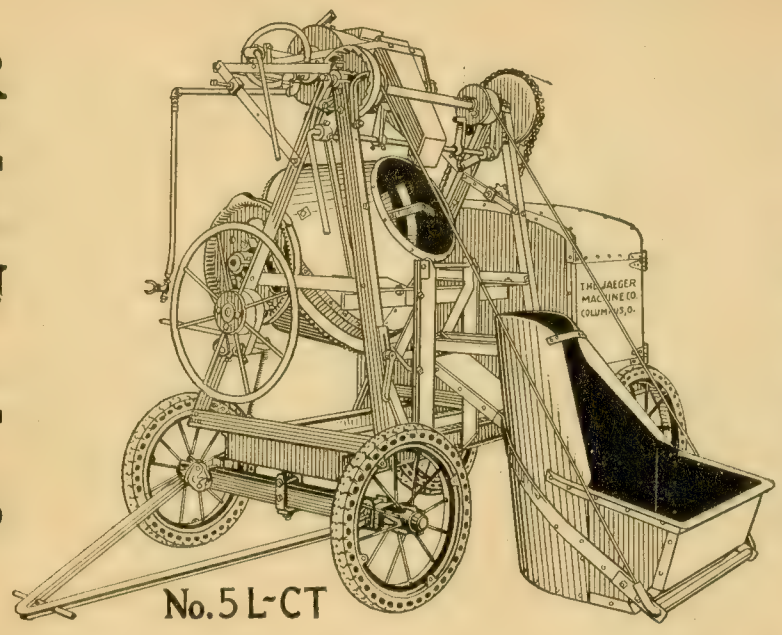
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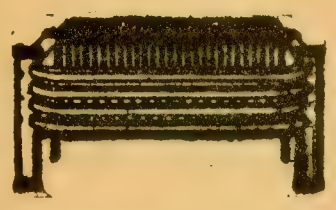
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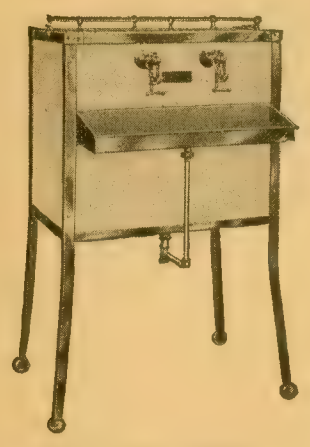


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 50

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December 15, 1926

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As The Editor Sees It

THIS IS THE AGE OF RIVETED STEEL

Address Delivered by A. F. JENSEN, *President, Hanna Enginnering Works, Before Members Attending the Annual Convention of American Institute of Steel Construction, Incorporated, Held in White Sulphur Springs, West Virginia on October 27th,* 1926.

(Continued from Last Week)

Testing by tapping discloses a rivet which does not grip the plates even though the rivet fills the hole. Rivets which will not pass the tapping test may be tightened by striking them again with the riveter, even though the rivets be cold. Such rivets are usually stitching rivets through heavy grips, all of which proves that the frictional value of plate upon plate is a real, definite, tangible, factor. Welding seems to offer no way of obtaining this frictional value. Any attempt to analyze the action of a riveted joint by the observance of a joint made of rubber is misleading. To attack the dependability of a riveted joint is to question the intelligence and the experience of the steel construction industry. The gradual deterioration (and it is decidedly gradual) of a riveted joint will give forewarning of its deterioration long before actual failure, whereas a weld will give no warning whatsoever, nor is its failure gradual.

There is not an important bridge in service today which was built thirty or more years ago that is not carrying loads far in excess of those originally contemplated and the same may be said of steel buildings. Is there a better monument to the dependability of the riveted joint?

Approximately 150 rivets are required per ton of structural steel. Machine driven rivets predominate. Each and every stroke of the compression yoke riveter sets the rivet with a predetermined tonnage produced irrespective of the judgment and skill of the operator and with the certainty that sufficient pressure has been exerted on each rivet.

A machine driven rivet always fills the hole. The upsetting or forming of the head requires such intense pressure per square inch of head cross section that the hole must be completely filled before the rivet metal therein can resist this head forming pressure. A filled hole is only one of the essentials of a properly driven rivet as a rivet which fills the hole but which does not grip the plate will be rejected. Compression rivet operators drive rivets which grip the plates firmly because a simple inspection will surely disclose rivets which are otherwise.

There is nothing a riveter operator can do or cannot do to appreciably reduce the value of a rivet without evidence that can be quickly detected by inspection; a burned rivet can be identified by appearance and a loose rivet by tapping. The operator of a riveter need only practice care that the rivet temperature is within a range of 500 degrees F. and the machine will take care of the rest. Prevention against burned rivets is more a matter of provision of proper heating devices than care upon the part of the rivet heater. Because of the human factor in welding, no weld is better than the welder.

In all data on structural welding which I have read it is obvious that the welder knew the weld was for test purposes. The most skilled and conscientious welders have been employed; supervision has been close and comprehensive and the conditions have been test conditions, all of which will not prevail on mass production.

Methods and machinery used in riveting have practically eliminated the necessity for skilled workmen. Industry's greatest problem today is that of manpower and it is, therefore, but a logical

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conclusion that those qualified by experience in the problem of the fabricating shop should consider the importance of the human element in welding as paramount.

The supply of riveter operators is only limited by the supply of unskilled labor. Structural shop unit costs have been reduced with the development of spacing tables, gang punches, etc., and fabricating profits are largely influenced by assembly costs. Every experienced fabricator and manufacturer realizes the importance of having units come to the assembly stage so that the possibility of error and the necessity for skilled labor are reduced to the minimum. Riveting accomplishes precisely that.

One of the great advantages of riveting is in the aligning and locating value of the matched rivet holes. They predetermine the squareness of the structure irrespective of the erectors. Rivet holes are located in the shop where their accuracy may be established with certainty and economy and with the assurance that the discriminating plans of the designing engineer are conformed to in the field. They establish location, level and squareness surely and quickly.

Proponents of welding say, "It is more important in a welded structure that plates be kept free from kinks and buckles than in riveted work, where a number of bolts may be used through rivet holes in bolting up." It is probable that in plate structure a number of holes will nearly always have to be provided for assembling. By judicious thought, and the passing of the plates through straightening rolls before assembly, the number of holes may be reduced to a minimum. These factors must not be lost sight of in computing costs. A considerable item of cost not incurred in riveting but necessary when welding is that beams must be machined to exact length and ends squared. Then too, considerable additional drawing expense will be incurred by erection drawings essential when welding.

A large amount of space in technical and semi-technical publications has been devoted to forecasts of the possible achievements by the adoption of welding. To compare this possible future development of welding with riveting practice as it now exists is to assume that the riveting art is at a standstill, an assumption not justified. In the riveting art we may look forward to the introduction of portable yoke riveters, much lighter than machines now in use, alloy steel rivets, the acceptance of cold riveting, power actuated mechanical devices for the manipulation of riveters on straight run work whereby the bucker-up is eliminated and the operator controls two or more riveters merely by the manipulation of valves making it possible for a crew of four men to drive at least fifty rivets per minute and the introduction of multiple riveting machines which will drive at least a dozen rivets for each operation cycle. A combination of cold riveting and multiple riveters constitutes the most promising possibility for the reduction of structural steel fabricating costs.

The broad publicity which has been given to welding of steel buildings when so little progress has been made to prove that buildings may be erected without the use of the pneumatic riveter has created a clamor for the elimination of the noise prior to the development of sufficient evidence that it can be done. In the meantime the structural steel industry is likely to confront unreasonable and unjustifiable demands for the elimination of the much discussed din of the riveting hammer—without thought or consideration of the possible loss of human life and property damage by the substitution of an untried process. Will the benefactors who make the unreasonable and unjustifiable demands to relieve the dear public from the nerve-wrecking riveting hammer agree to protect the same dear public from the harmful and disconcerting effect of the blinding ultra-violet rays of the arc?

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(Continued on page 801)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Parish House, Frankford, Philadelphia. Architect, Samuel D. Milner, 4616 Frankford avenue, Philadelphia. Owner, name withheld. Stone, 2 stories, 40x70 feet, wing 30x40 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress. Will take bids early in year of 1927.

Factory Building, Northwest Corner Twenty-fifth and Oakford streets, Philadelphia. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, J. Anders, care of architect. Brick, steel, slow burning, 4 stories and basement, 60x177 feet, slag roof, composition floors, sprinklers, elevator, plumbing, H. P. steam heat, electric light, structural steel sash, fire doors. Plans about completed. Architect ready for sub-bids.

Apartment House, South side Pine street, between Forty-seventh and Forty-eighth streets, Philadelphia. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owners, Bobbs, Herman & Pepper, 1216 Bankers' Trust Building, Philadelphia. Brick, stone, steel, 6 stories, 110x204 feet (110 apartments), elevators, hardwood floors, vapor heat, electric light, tile work, slag roof. Owners taking sub-bids.

Store and Residence, Rittenhouse and Limekiln pike, Philadelphia. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owners, Gottleib, Green & Sklar, on premises. Brick, 3 stories, 19 feet 7 inches x 35 feet, slag and slate roof, hardwood floors, cement work, hot water heat, electric light, metal lath, tile work, basement garages, plate glass, metal bulks. Owners ready for sub-bids.

Stores (9), Southwest Corner Twenty-second and Chestnut streets, Philadelphia. Architect, LeRoy B. Rothschild, 215 South Broad street, Philadelphia. Owner, Edward Monroe Harris, 2218 Chestnut street, Philadelphia. Terra cotta, brick, steel, 2 stories, 128x126 feet, slag roof, electric light. Plans about completed. Architect will be ready for bids in a few days.

Residence and Garage, Frankford, Philadelphia. Architect Samuel D. Milner, 4616 Frankford avenue, Philadelphia. Owner, name withheld. Stone, 2½ stories, 27x42 feet, wing 20x29 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Plans about completed. Architect ready for sub-bids one week.

Council Headquarters Building, 2009 Spruce street, Philadelphia. Architects, Hoffman-Henon, Inc., Finance Building, Philadelphia. Owners, Knight of Columbus, San Domingo Council, William Rooney, 1329 South Twenty-fourth street, Philadelphia. Brick, steel, basement and auditorium, 36x146 feet, 50 feet high, slag roof, composition floors, hardwood floors, electric light, tile and marble work, plumbing, iron work, general alterations. Plans completed. Owners ready for bids.

Retaining Wall, Fifth and Glenwood avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, S. L. Allen & Co., on premises. Stone, 121 feet long. Architect taking bids.

Residence, Oak Lane, Pa. Architect, G. Edwin Brumbaugh, Real Estate Trust Building, Philadelphia. Owner, name withheld. Stone, 2½ stories, 25x70 feet. Preliminary plans in progress.

Moving Picture Theatre, 1710 North Twenty-second street, Philadelphia. Architect, Hodgens & Hill, 13 South Fifteenth street, Philadelphia. Owner, Harry Moskovitz, 1707 North Croskey street, Philadelphia. Brick, steel, concrete, 54x180 feet, slag roof, reinforced concrete floors, electric light. Plans in progress.

Bridge over Cobbs' Creek, Sixty-first and Baltimore avenue, Philadelphia. Engineer, George Wright, Delaware County, Media, Pa. Owners, Delaware County and Philadelphia County, City Hall, Philadelphia. Reinforced concrete, steel, 46 feet length, 50 feet width. Plans drawn. Owner will take bids early in 1927.

Alterations and Additions, 132 South Eighteenth street, Philadelphia. Architect, Ralph Goldberg, 1626 Chestnut street, Philadelphia. Owners, Ernest & Molden, on premises. Steam heat, electric light, metal lath, tile and marble work, gypsum slab roof, rubber floors, oak floors, carpentry and mill work, plastering, craftex, bronze work. Architects taking bids due December 17th.

Contract No. 1, Wissahickon Creek and Haines street, Philadelphia. Architect, S. T. Wagner, 522 Reading Terminal, Philadelphia. Owners, Philadelphia & Reading Railroad Co., Twelfth and Market streets, Philadelphia. Grading, excavation, construction of retaining walls, removal of buildings and other obstructions, erection of new northbound station, shelter and platform, changing shelter platforms, construction of underground passage and stairway, overhead foot bridge, freight yard paving, drainage and work appurtenant thereto. Appurtenant to the abolishment of grading crossings along Norristown Branch of Philadelphia & Reading between Wissahickon Creek and Fountain street, Philadelphia. Owners taking bids due December 29th at noon.

Miscellaneous Work, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Contract 836, reinforcing chimney, Lardner Point Pumping Station. Contract 858, boiler setting and piping work, Queen Lane Pumping Station. Contract 860, conveyor gallery enclosure, Lardner Point Pumping Station. Owners taking bids due December 21st. Certified check, 5 per cent. Inquire 788.

Supplies, Philadelphia. Purchasing agent, E. J. Lafferty, 329 City Hall, Philadelphia. Owners taking bids due December 20th at noon. Certified check, 5 per cent. For liquid chlorine, sulphate alumina.

Supplies, Philadelphia. Owners, Pennsylvania Railroad, Montgomery Smith, purchasing agent, Seventeenth and Filbert streets. Contract No. 75, railroad frogs, switches, compromise points, switchboards, rail braces. Contract No. 76, bridge. Owners taking bids due December 21st before noon.

Residences (26), North side Luzerne street, West of N street, $131,000. Architect, private plans. Owner, Coe A. Boardman, 1935 Church lane, Philadelphia. Brick, 2 stories, 15x27 feet, 12x12 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Garage, East side Seventy-first street, South of Elmwood avenue, Philadelphia, $20,000. Architect, private plans. Owner, Abraham Tepper, 4924 North Seventeenth street, Philadelphia. Brick, 1 story, 50x200 feet, slag roof, cement floors, electric light. Permit issued.

Residence (add. and alts.), 420 North Preston street, Philadelphia, $15,000. Architect, private plans. Owner, Isaac Fleischer, 4105 Market street, Philadelphia. Brick, 2 stories add., 14x22 feet, general alterations, hot water heat. Permit issued.

Residences (41), West side F street, North of Ashdale street, Philadelphia, $189,000. Owner, Anthony Olivieri, 6726 Torresdale avenue, Philadelphia. Brick, 2 stories, 15x28 feet, 12x10 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Service Station, Northwest Corner Fifty-seventh and Walnut streets, Philadelphia, $15,000. Architect, private plans. Owners, Gulf Refining Co., 1515 Locust street, Philadelphia. Brick, 1 story, 15x20 feet. Permit issued.

Residences (3), South side Georgian road, East of Ogontz avenue, $13,500. Owner, Max Chipin, 5701 North Seventeenth street, Philadelphia. Brick, 2 stories, 16x38 feet, 12x14 feet ,slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

Storage, North side Luzerne street, West of H street, Philadelphia, $5,000. Architect, private plans. Owner, George W. Vilseimer, 4401 Rising Sun avenue, Philadelphia. Brick, 1 story, 40x100 feet. Permit issued.

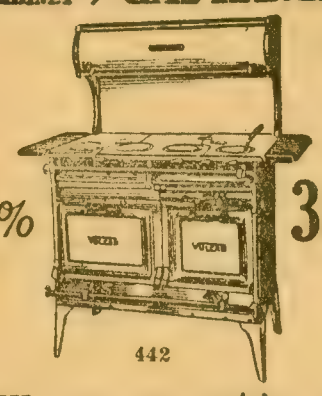
Store, Northeast Corner Rising Sun avenue and Alcott street, Philadelphia, $3,500. Architect ,private plans. Owner, Joseph Friedman, 4831 North Twelfth street, Philadelphia. Brick, 1 story, 22 feet 7 inches x 60 feet. Permit issued.

Garage, 1635-41 North Twenty-seventh street, Philadelphia $32,000. Architect, private plans. Owners, Zachnitz & Gaffe, 4544

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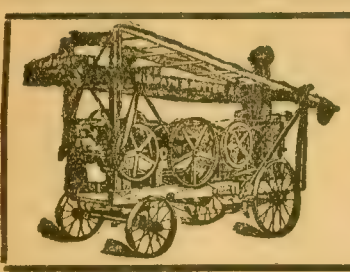
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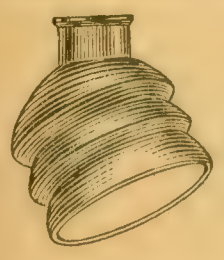
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North Warnock street, Philadelphia. Brick, 2 stories, 54x175 feet, slag roof, cement floors, electric light. Permit issued.

Residence, Northeast Corner Wissahickon avenue and Mt. Airy avenue, $20,000. Architect, W. Butler, 315 Unruh street, Philadelphia. Owner, Anna Mae Boger, 332 West Logan street, Philadelphia. Stone, 3 stories, 45x33 feet, 21x37 feet, slate roof, hardwood and pine floors, hot water heat, electric light, tile work. Permit issued.

Residence, West side Twentieth street, South of Hulseman street, Philadelphia, $4,000. Architect, private plans. Owner, Robert MacQueen, 2132 Hulseman street, Philadelphia. Brick, 2 stories, 16x40 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Miscellaneous Work, Philadelphia. Low bidders. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Contract No. 856, filter ramps, J. B. McHugh, 892 North Markoe street, $12,984. Contract No. 857, hot water heating system, Bulman Brothers, Fifth and Cumberland streets, $2,664. Contract No. 858, plumbing, E. Roberts, 2622 Columbia avenue, $873.

Miscellaneous Work, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Low bidders. Contract No. 323, sewers, Eighty-fifth and Lyons avenue, Municipal Paving Co., 702 Catherine street, Philadelphia, $46,475.50. Contract No. 316, sewers, Eighty-fifth and Lyons avenue, Municipal Paving Co., 702 Catherine street, Philadelphia, $12,160.30. Contract No. 314, cement work, J. O'Rourke, 5108 Wyalusing avenue, Philadelphia, $900. Contract No. 315, L. P. Riedenauer, 2917 Susquehanna avenue, $2,867. Contract No. 325, Walker-Kepler, 531 Chestnut street, Philadelphia, $1,693. Contract No. 313, McClintock & Co., 5608 Race street, Philadelphia, $647. Contract No. 321, Bulman Brothers, Fifth and Cumberland streets, $386.

Waverly Central Office (alts.), 65th and Old York Rd., Phila. Engineers, Franklin Engr. Co., 2530 Grays Ferry Ave., Phila. Owner, Bell Telephone Co. of America, care of Mr. Berkenbeen, 1835 Arch St., Phila. Paving, grading, cement, sidewalks. Owner taking bids due as soon as possible.

Building (alts. and add.), 904-06 Chestnut St., Phila. Architect, Sol. Kaplan, 10 S. 18th St., Phila. Owner, name withheld. Brick, limestone front, 4 stories, composition roof, rubber tile floors, passenger elevator, plastering, painting, plate glass, steam heat, electric light, metal sash and skylights, bronze bulks, ornamental ironwork, ornamental bronze work. Plans about completed, ready for general bids in a few days.

Building, N. W. Cor. 40th and Ludlow Sts., Phila. Architect. John T. Windrim, Commonwealth Bldg., Phila. Owner, Phila. Elec. Co., 10th and Chestnut Sts., Phila. Brick, cut stone, steel, 8 stories and basement. Plans in progress.

Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Alterations Building into Banking Room, Juniper and Walnut streets, Philadelphia. Architect, Horace Trumbauer, Land Title Building, Philadelphia. Owners, Bankers' Trust Co., care of A. Greenfield, Juniper and Walnut streets, Philadelphia. Brick, steam heat, cut stone, fireproofing, waterproofing, iron work, lockers, metal toilet partitions, bronze work, hardware, revolving doors, mill work, cabinet work, rubber tile floors, safe, plumbing. Contract awarded A. Wilt & Son, 723 North Front street, Philadelphia.

Factory .add.), 4344 Penn street, Frankford, Philadelphia. Architect, private plans. Owners, Standard Tapestry Co., on premises. Brick, 2 stories, 18x60 feet, slag roof, cement floors, heating extensions, electric light. Contract awarded William F. Lotz, Frankford avenue and Oxford pike, Philadelphia.

Junior High School, L and Luzerne streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Plans filed and contract awarded to William Langhorne, 10 South Eighteenth street, Philadelphia, $462,000.

Store and Two-Family Apartments, Northwest Corner Sixty-second and Elmwood avenue, Philadelphia. Architect, N. G. Gallucci, 7901 Eastwick avenue, Philadelphia. Owner, Peter Rody, on premises. Changing first floor into stores, rear addition, brick, 2 stories, slag roof, hardwood floors, heating and light-

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ing changes. Contract awarded T. M. Cockerill, 6020 Buist avenue, Philadelphia.

Service Station, Southwest Corner Chester and Ogontz avenues, Philadelphia Architect, private plans. Owners, Goldner Brothers Realty Co., Charles Goldman, Greene and Chelten. Brick, steel, 1 story, 50x95 feet, 20x82 feet, slag roof, cement floors, electric light. Contract awarded H. P. Schneider, 3713 Old York road, Philadelphia.

Residence, 845 and 847 North Forty-eighth street, Philadelphia, $3,000. Architect, private plans. Owner, W. B. Rice, druggist, Forty-sixth and Market streets, Philadelphia. Brick, steel, 1 story, 6x14 feet, garage, 8x18 feet, concrete roof, cement floors, carpentry and mill work. Contract awarded Ideal Const. Co., 4622 Market street, Philadelphia.

Apartment House, 3514 Spring Garden street, Philadelphia, $130,000. Architect, J. Frank Clark, 23 South Sixteenth street, Philadelphia. Owner, Abe Tolins, 23 South Sixteenth street, Philadelphia. Brick, 3 stories, 100x112 feet 4 inches, slag roof, hardwood and pine floors, steam heat, electric light, tile work. Plans filed. Contract awarded to Clark & Tolins, 23 South Sixteenth street, Philadelphia.

Residence, Southeast Corner Twenty-second and Delancey streets, Philadelphia, $48.000. Architect, Joseph Margolis, 10 South Eighteenth street, Philadelphia. Owners, Fried & Fishman, 262 South Seventeenth street, Philadelphia. Brick, 2 stories, 43 feet 8 inches x 67 feet 9 inches, slag roof, hardwood and pine floors, steam heat, electric light, tile work. Plans filed. Contract awarded to Joseph F. Lynch, 262 South Seventeenth street, Philadelphia.

Store and Apartments (alts. and add.), 205 South Fifty-second street, Philadelphia. Architects, Durham Brothers, 34 South Seventeenth street, Philadelphia. Owner, Mrs. E. Chapman, 5530 Lansdowne avenue, Philadelphia. Tapestry brick, steel, second story add., new third floor, slag roof, wood, oak and pine floors, carpentry and mill work, plastering, painting, glazing, electric work, metal lath, tile work, ornamental iron work. Contract awarded Charles T. Booker, 2257 North Uber street, Philadelphia

Building (add.), 1306 Chestnut street, Philadelphia, $15,000. Architect, David B. Bassett, 1520 Locust street, Philadelphia. Owner, F. A. North, on premises. Brick, steel, ninth story add., 20x65 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, metal lath, ornamental iron work. Contract awarded F. G. Stewart, 1520 Locust street, Philadelphia.

Commercial Building (alts.), 1526 Market street, Philadelphia, $6,000. Owners, West Realty Co., 215 South Broad street, Philadelphia. General alterations. Contract awarded to Charmin-Silverstein Co., 213 East One Hundred and Seventeenth street, New York City.

Bridge, Schuylkill River, Green lane, Manayunk, Philadelphia, $399,157. Architect, private plans. Owners, Commissioners of Montgomery County, W. C. Irvin, Department of Public Works, S. H. Noyes, City Hall, Philadelphia. Contract awarded Seeds & Derham, 6314 Wissahickon avenue, Philadelphia.

Garage, North side Ludlow street, East of Forty-eighth street, Philadelphia, $30,000. Architect, private plans. Owner, Abbie Connor, Forty-first and Chester avenue, Philadelphia. Brick, 1 story, 100x100 feet, slag roof, cement floors, electric work. Contract awarded to LeRoy K. Smith, 4007 Chester avenue, Philadelphia.

Factory (add.), 2636 East York street, Philadelphia, $4,000. Architect, private plans. Owners, Datz Box Factory, on premises. Tank supports. Contract awarded to Thomas Strachan, 5108 Hadfield street, Philadelphia.

Tank Support, Northwest Corner C and Ontario streets, Philadelphia, $3,000. Owners, Philadelphia Storage Battery Co., on premises. Steel. Contract awarded to Stewart Brothers Co., 2526 North Orkney street, Philadelphia.

Manufacturing (add.), 2168-70 East Firth street Philadelphia, $6,900. Architect, private plans. Owners, New Famous Chandelier Co., 1022 Hamilton street, Philadelphia. Brick, 2 stories add., 35x36 feet. Contract awarded to H. F. Brown, 6127 Ridge avenue, Philadelphia.

Residence, South side Lardner street, East of Brons street, Philadelphia, $5,000. Architect, private plans. Owner, Sarah Kenton Tabor, 6000 Frankford avenue, Philadelphia. Frame, 2 stories, 17x56 feet, hardwood and pine floors, electric light. Contract awarded to Harry Holstein, 5445 Spruce street, Philadelphia.

Pennsylvania Construction News

Residence (alts. and add.), Paoli, Pa. Architect, R. Brognard Okie, 306 S. Smedley St., Phila. Owner, Dr. Ralph Pemburton, on premises. Stone, frame, carpentry and millwork, plumbing, hardware, shingle roof, hot air heat, electric light, painting and glazing. Architect taking bids due Dec. 17th.

Church, Northampton, Pa. Architect, S. J. Laschenski, Harrison Building, Philadelphia. Owners, Roman Catholic Slovak Church of Blessed Virgin Mary, Rev. A. Fekety, Northampton, Pa. Plans in progress. Work contemplated in spring, 1927.

T. J. Stewart Memorial, Stoney Creek and Harting Boulevard, Norristown. Architect, not yet selected. Owners, Company K, Pennsylvania National Guard, Captain L. D. McClure, 1403 DeKalb street, Norristown, Pa. Stone, brick, steel. Will start work early in spring, 1927.

Country Club, Sharon Hill, Pa. Architect, N. G. Gallucci, 7901 Eastwick avenue, Philadelphia. Owner, name withheld. Sketches being drawn. Work contemplated.

Washington School (add.), Salisbury Township, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Salisbury Township School Board, care of ar-

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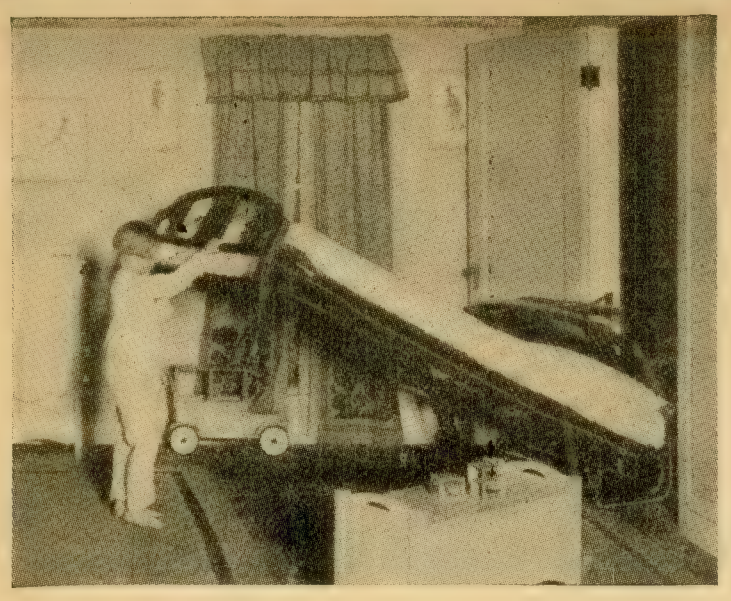
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chitects. Brick, 4-room add., slag roof, maple floors. Plans in progress.

Grade School, Vera Cruz, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owners, Upper Milford Township School Board, Andrew Heller, secretary, Emaus, Pa. Brick, steel, 2 stories, 40x90 feet, built-up roof, composition floors, roof ventilators, safety treads, hollow tile, bond, fire doors, rolled steel sash, metal lath. Revised plans in progress.

Residence and Garage, College Hill, Easton, Pa. Architect, William Michler, Drake Building, Easton, Pa. Owner, Charles H. Knight, Sullivan street, Easton, Pa. Indiana limestone, tile, 2½ stories, 80x33 feet, 24x40 feet, tile roof, hardwood floors, hollow tile, tile work, oil burner, electric light. Revised plans in progress.

Stores and Hall (add. and alts.), Olyphant, Pa. Architect, Lester M. Davis, 616 Spruce street, Scranton, Pa. Owners, Concord Society, Olyphant, Pa. Brick, 2 stories and basement, 100x100 feet, slag roof, pine floors, steam heat, electric light. Plans in progress.

Fraternity House, State College, Pa. Architect, J. J. Howley, Traders' Bank Building, Scranton, Pa. Owners, Theta Kappa Phi Fraternity, State College, Pa. Stone, steel, 3 stories, 120x34 feet, slate roof, oak floors, tile work, electric light, cut stone, iron stairs. Revised plans in progress.

Church and Sunday School (add. and alts.), Trappe, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owners, St. Luke's Reformed Church, J. C. Landis, chairman, Building Committee, Yerkes, Montgomery County, Pa. Stone, 2 stories, 30x60 feet, composition roof, oak and maple floors (heating, plumbing and lighting reserved), steel and wood sash. Plans in progress.

Bungalow, Spring City, Pa. Architect, J. Vincent Poley, 162 Second avenue, Royersford, Pa. Owner, James F. Thompson, 255 South Main street, Spring City, Pa. Frame, stucco, cement block, 2 stories, 26x30 feet, asphalt shingle roof, pine floors, Morgan doors, steel and wood sash, Celotex (heating, plumbing and electric work reserved). Plans in progress

Reconstruction and Repairs to Bridge, Seventh street, Chester, Pa. Engineer, George Wright, Delaware County, Media, Pa. Owners, County Commissioners, Chester, Pa. Plans about completed. Owners will soon take bids.

Parish House, Olyphant, Pa. Architect, Lester M. Davis, 616 Spruce street, Scranton, Pa. Owners, Sts. Cyril and Methodius Roman Catholic Church, Rev. Michael Guryansky, 135 River street, Olyphant, Pa. Brick, 2½ stories, 28x30 feet. Architect will take bids after first of year.

Residence, Clark's Green, Pa. Architect, J. H. Davey, Coal Exchange Building, Scranton, Pa. Owner, Mathias Stipp, Scranton Real Estate Building, Scranton, Pa. Brick, 2½ stories, 28x32 feet, tile roof, hardwood floors, steam heat, electric light, tile work. Owner will build.

Auditorium for School, Stroudsburg, Pa., $125,000. Archi[illegible]E .H. Davis and George M. D. Lewis, Bo[illegible]ade Building, Scranton, Pa. Owners, Bo[illegible]rustees, Normal School, Dr. Allen, Stroudsburg, Pa. Fireproof, steel, 1 story, 70x125 feet, slag roof, maple floors, hollow tile, steam heat, electric light, metal lath, tile work, bond. Owners taking bids due January 4th. Deposit, $25, refunded. Plans may be obtained from architects.

Arcade Building (alts. and add.), Lancaster avenue, West of Cricket avenue, Ardmore, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, Harry J. Rittenhouse, Ardmore, Pa. Carpentry and mill work, stone work, brick, painting and glazing, plastering, steam heat, slag roof, electric light, metal lath, ornamental iron work. Architects taking bids due December 17th.

Bank, Bethlehem, Pa. Architect, H. J. Wiegner, Bethlehem Trust Building, Bethlehem, Pa. Owners, Bethlehem Trust Co,, Broad and Main streets, Bethlehem, Pa. Fireproof, steel, concrete, 5 stories 40x45 feet, concrete roof, composition and linoleum floors, heating extension, electric light, metal lath, tile work. Architect taking bids on steel. Architect ready for general bids.

Assembly Hall (alts. and add.), Bustleton, Pa. Architect, C. H. Fries, Drexel Building, Philadelphia. Owners, St. Luke's the Beloved Physician Episcopal Church, Rev. Paul Micou, Bustleton, Pa. Stone, 16x20 feet, 10x30 feet, hot water heat, electric light, tile work, wood shsingle roof, maple floors. Architect taking bids due December 20th.

Office Building, North side Pennsylvania Railroad track near Baldwin Station, Eddystone, Pa. Architect, private plans. Owners, Baldwin Locomotive Works, Broad and Spring Garden streets, Philadelphia. Brick, steel, 6 stories, 150x200 feet, slag roof, cement and wood floors, steam heat, electric light. Owners will sub-let.

School, Swarthmore, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Delaware County, J. A. Perry Swarthmore, Pa. Low bidders: N. W. Bryan, 10 South Eighteenth street, Philadelphia, $115,450; William Langhorne, 10 South Eighteenth street, Philadelphia, $116,500. Electric, Merit Elec. Co., 630 Race street, Philadelphia, $5,500. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, $5,353. Heating, American Heating & Ventilating Co., 1505 Race street, $24,679.

School, Horsham, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Board of Education, Horsham, Pa. Low bidders: Wills-Bill Co., 1706 Sansom street, Philadelphia, $53,953, deduct $3,000; R. S. Herzog, 10 South Eighteenth street, Philadelphia, $57,800, deduct $2,000; Roy Randall, Jenkintown, Pa., $57,987, deduct $4,500.

Home (add.), 2115 North Cain street, Scranton, Pa., $100,000. Architect, Louis Reisman, Miller Building, Scranton, Pa. Owners, Jewish Home for Friendless, A. B. Cohen, Brooks Building, Scranton, Pa. Brick, 3 stories. Sketches in progress.

Club House and Stores (add. and alts.), Hazleton, Pa., $30,000. Architect, Peter B. Sheridan, Markle Bank Building, Hazleton,

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Pa. Owners, Catholic Women's Club, care of architect. Brick, 3 stories add., general alterations. Plans in progress. Architect will be ready for bids in about three months.

Hospital, West side, Wilkes-Barre, Pa. Architects, McCormick & French, Second National Bank Building, Wilkes-Barre, Pa. Owners, Nesbitt West Side Hospital, 562 Wyoming avenue, Wilkes-Barre, Pa. Fireproof, 3 stories and basement, 260x210 feet, tile roof, marble and cork floors, metal lath, steam heat, electric light. Will mature after the first of the year.

Store and Apartment (alts and add.), Wilkes-Barre, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owner, name withheld. Brick and terra cotta, 3 stories, 48x94 feet, slag roof, pine floors, steam heat, electric light. Architects ready for bids due December 28th.

Residence, Wyndmoor, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner. Walter E. Rex, care of architects. Oak and pine floors, 2½ stories. Architects taking bids due December 21st.

Portable School, Eleventh street, near Yarnall, Chester Township, Pa. Owner, care of C. M. Aucott, Brookhaven, R. F. D., Chester, Pa. (Plumbing, heating, ventilating, electric separate), 24x70 feet. Owner taking bids due December 27th, 8 P. M.

Road Work, Pennsylvania. Low bidders. Owners, Pennsylvania Department of Highways, Harrisburg, Pa.

Jefferson County, R-61, A-4213, Snyder Township. One course reinforced concrete. Minns Brothers, DuBois Pa., $96,666.80.

Huntingdon County, R-431, Cromwell and Clay Townships. Grading and drainage. Monongahela Const. Co., Fairmont, W. Va., $53,935.70.

Warren County, R-93, bridge over Allegheny River, East of Irvineton. Reinforced concrete open spandrel arch bridge. Porterfield-Binger Const. Co., Youngstown, Ohio, $162,120.

Allegheny County, R-70, Sec. 4a, A-4358, O'Hara and Harmer Townships, Blawnox Borough, Pittsburgh City. One course reinforced concrete. State Const. Co., New Kensington, Pa., $405,142.55.

Indiana County, R-262-4, viaduct, Clymer Borough and Cherryhill Township. Reinforced concrete. Paul H. Sheirich, Inc., Lancaster, Pa., $49,069.45.

Cambria County, R-525, A-4240, Lower Yoder Townshsip. One course reinforced concrete. E. H. Brua, Hollidaysburg, Pa., $90,654.82.

Theatre, Stores and Apartments, Main St., Lansdale, Pa. Architects, Magaziner, Eberhard & Harris, 603 Chestnut St., Phila. Owner, Lansdale Theatre, H. F. Boorse, Lansdale, Pa. Brick, steel, stories, 1,000 seating capacity. Preliminary plans in progress. Architect selected.

Gymnasium Building, Indiana, Pa. Architects, Laurie & Green, 116 Locust St., Harrisburg, Pa. Owners, Inidiana State Normal School, care of Wm. Keith, Indiana, Pa. Brick, reinforced concrete, cut stone, limestone, steel, 2 stories and basement, 168x68 feet (plumbing, heating and electric separate), built-up roof and black slate roof, cement and maple floors, hollow tile, waterproofing, ornamental iron, iron stairs, bond, kalamein and hollow metal doors, rolled steel sash and skylights, tile and marble, metal lath, steel casement, gypsum roof, tile, ornamental plaster, steel lockers, brass work, bronze work, metal window guards, area gratings. Low bidders: Columbia Const. Co., Altoona Trust Bldg., Altoona, Pa. Plumbing: E. R. Lumsden, Indiana, Pa. Heating: Wm. M. Clark & Co., New Castle, Pa. Electrical: John W. Spangle & Son, Swissvale, Pa.

Pennsylvania Contracts Awarded

Residence and Garage, Merion Golf Manor, Merion, Pa. Architect, John L. Coneys, Drexel Bldg., Phila. Owner, Clarence E. Kiemmerle, 6145 Carpenter St., Phila. Stone cut stone, stucco, 2½ stories and basement, 71x21 feet, variegated slate roof, oak, pine and cement floors, painting and glazing plumbing metal weatherstrip, electric light, metal lath, tile work, ornamental iron work, conder concrete blocks. Contract awarded F. J. Wilson, Oakmont, Pa. Not yet signed.

Residences, Nos. 71 and 73, Meadowbrook, Pa. Architect, Frank Seeburger, 1524 Chestnut street, Philadelphia. Owner, name withheld. Stone, 2½ stories and basement (plumbing, heating, electric reserved), metal lath, tile work, bond, ornamental iron work, slate roof, oak and pine floors. Contract awarded J. E. Kearney, Wynnewood, Pa.

Farm House and Cottage (alts. and add.), and Garage, Devon, Pa. Architect, C. A. Ziegler, Drexel Building, Philadelphia. Owner, T. H. Dougherty, on premises. Stone, frame, 2½ stories and basement, 24x28 feet, garage 21x27 feet, shingle roof, oak, pine and cement floors (heating reserved), electric light. Contract awarded Hart & Parlaman, Devon, Pa.

Store (alts.), Church street, West Chester, Pa., $5,000. Architect, private plans. Owners, Henry Estate, West Chester, Pa. Hot water heat, electric light, new store front, plumbing, carpentry and mill work, plastering. Contract awarded Ideal Const. Co., 4622 Market street, Philadelphia.

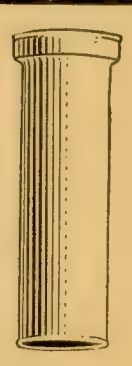
Church, Brookline, Pa., $60,000. Architect, George C. Baum, 1611 Arch street, Philadelphia. Owners, Temple Lutheran Church, Brookline, Pa. Stone, cast stone, steel, 1½ stories and basement, 70x50 feet, slate roof, pine and cement floors, steam heat, electric light, metal lath, bond, ornamental iron work. Contract awarded E. J. Kreitzburg & Co., 1333 Arch street, Philadelphia.

Residence, Ithan, Pa. Architect, W. K. Durham, 312 South Broad street, Philadelphia. Owner, Mr. Buzby, care of Keystone Lubricating Co., Twenty-first and Clearfield streets. Contract awarded D'Auitalo & D'Andrea, 2329 West Somerset street, Philadelphia

Silk Mill, Georgetown, Pa. Architects, Schroeder & Schmidt, Weitzenkorn Building, Wilkes-Barre, Pa. Owners, Georgetown Silk Co., Georgetown, Pa. Brick, steel, 1 story, 155x117 feet, slag roof, concrete floors roof ventilators, waterproofing, fire doors, steel sash, electric work. Contract awarded to A. M. Hildebrand, 91 Wood street, Wilkes-Barre, Pa.

Factory (add.), Wilkes-Barre, Pa. Architect, J. A. McGlynn, Simon Long Building,





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Wilkes-Barre, Pa. Owner, J. K. Stelioles, care of architect. Slow burning construction, 3 stories, 46x22 feet, slag roof, pine floors, roof ventilators, fire doors, steel sash, electric light. Contract awarded to Walborn & Barney, 175 Race street, Wilkes-Barre, Pa.

Church, Sweet Valley, Pa. Architect, H. G. Cook, Miners' Bank Buildinb, Wilkes-Barre, Pa. Owners, First Christian Church, Rev. Crosby, Sweet Valley, Pa. Brick, 1 story, 45x45 feet, asbestos roof, pine floors, hot air heat. Contract awarded to William I. Whitesell Kingston, Pa.

Bottle Works, Wilkes-Barre, Pa. Architect, Austin Reilly, Bennett Building, Wilkes-Barre, Pa. Owners, John Finn Bottling Works, 37 East Thomas street, Wilkas-Barre, Pa. Brick, steel, 2 stories, 32x90 feet, asphalt roof, concrete floors, rolling steel doors, fire doors, steam heat, electric light. Contract awarded to F. Ellis Green 521 Blackman street, Wilkes-Barre, Pa.

Road Work, Pennsylvania. Owners, Dept. of Highways of Penna., Harrisburg, Pa.

Potter Co., R-103, A-4235, Lewisville Boro. Bituminous surface treated macadam. Contract awarded to D. L. Dennis, Galeton, Pa., $55,401.25.

Butler Co., R-246, A-4339, Zelienople Boro., Jackson Twp. One course reinforced concrete. Contract awarded to O. B. Bracht, Titusville, Pa., $99,984.60.

New Jersey Construction News

School, Mt. Ephraim, N. J. Architects, Edwards & Green, Camden, N. J. Owner, Board of Education, Mt. Ephraim, N. J. Low Bidders: Geo. Bachman, Camden, N. J., $34,237; R. S. Herzog, 10 S. 18th St., Phila., $36,226. Heating: H. Knecht, W. Collingswood, N. J., $5,450. Plumbing: Walton Plumbing & Heating Co., Camden, N. J., $3,400. Elec.: Merit Elec. Co., 630 Race St., Phila., $875.

Bakery (add.), Trenton, N. J. Architect, C. B. Comstock, 110 West Fortieth street, New York. Owners, Freihofer Baking Co., Eighteenth and Indiana avenue, Philadelphia. Brick. Plans in progress. Details undecided.

Store and Club House, Beach Haven, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Loyal Order of Moose, Carl Stratton, Beach Haven, N. J. Brick, cinder block, 3 stories, 42x80 feet, slag roof, maple floors, waterproofing and dampproofing, iron stairs, metal lath, electric light, steam heat. Plans in progress.

School, Northfield, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic Citf, N. J. Owners, Northfield School Board, Mr. Harman, Northfield, N. J. Steel, fireproof, 2 stories and basement, 58x160 feet, built-up roof, maple floors, hollow tile, safety treads, roof ventilators, iron stairs, waterproofing and dampproofing, skylights, tile and marble (heating, plumbing and electric separate). Plans in progress.

Garage and Apartment, Lansdowne avenue, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, Charles Adkins, 433 Lansdowne avenue, Camden, N. J. Steel, frame, brick, 3 stories, 76x90 feet, slag roof, concrete and pine floors, steam heat, electric light, metal lath, floor hardener, metal lath, steam heat, electric light. Plans in progress

Building (add. and alts.) to Cafe and Dining Room, 531-33 Market street, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Board of Directors, Chamber of Commerce, Camden, N. J. Brick, concrete and hardwood floors, steam heat, electric light, tile work, general alterations. Plans in progress.

Stores (7), Apartments (14), Ocean City, N. J. Architect, Vivian B. Smith, Ocean City, N. J. Owners, Freihofer Baking Co., Twentieth and Indiana avenue, Philadelphia. Brick, 3 stories, 130x100 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble. Plans in progress. Architect will soon take bids.

Stores (2), Apartments (3), Bay avenue, Beach Haven, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, M. A. Todd, Beach Haven, N. J. Cinder block, stucco, 2 stories, 50x80 feet, tin roof, pine floors, steam heat, electric light. Architects about ready for bids.

Administration Building, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City School Board, H. H. Young, secretary, Atlantic City, N. J. Fireproof, 3 stories, 47x120 feet, slag roof, hardwood floors, terra cotta, elevators, stone, tile and marble, electric light. Owners about ready for bids.

Apartment Building (add. and alts.), 25 North Indiana avenue, Atlantic City, N. J. Architect, D. W. B. Haining, Guarantee Trust Building, Atlantic City, N. J. Owner, Lewis Max, 12 North Indiana avenue, Atlantic City, N .J. Brick, 4 stories, 37x65 feet, slag roof, pine floors, hot water heat, electric light, tile work. Architect ready for bids.

Nurses' Home, Camden, N. J. Architects, Lackey & Hettle, 5 Hudson avenue, Camden, N. J. Owners, West Jersey Homeopathic Hospital, J. Scott, Camden, N. J. Reinforced concrete, brick, cut stone, steel, 3 stories and basement, 134x33 feet, slag roof, cement, composition floors, steam heat, electric light, metal lath, tile and marble work, plumbing, roof ventilators shoring, waterproofing and dampproofing, bond, kalamein doors, cast stone, cinder concrete blocks, parlock waterproofing, canvas floors, area gratings. Architects taking revised bids due December 20th.

Centrifugal Building (add.), Paulsboro, N. J. Architect, private plans. Owners, Vacuum Oil Co., Paulsboro, N. J. Brick, steel, 2 stories and basement, 57x22 feet, asbestos roof, cement floors, painting and glazing, rolled steel sash, kalamein doors. Owners taking bids due as soon as possible.

High School and Auditorium, Merchantville, N. J. Architect, A. H. Moses, Temple Building, Camden, N. J. Owners, Merchantville School Board, R. G. Test, secretary, Merchantville, N. J. Fireproof, 2 stories and basement, 100x40 feet, 70x80 feet, composition roof, maple and composition floors, hollow tile, safety treads, roof ventilators, ornamental iron, iron stairs, bond, fire doors, copper skylights, marble and terrazzo work, metal lath (heating, plumbing and electric separate). Owners taking bids due December 28th.

Store, Apartment and Garage, Boardwalk and Missouri avenue, Atlantic City. Architect, Benjamin Brown, Guarantee Trust Building, Atlantic City, N. J. Owner, Charles Nemcof, care of architect. Brick, steel, frame, 2 stories and basement, 1 story, 104x100 feet, 104x200 feet, slag roof, hardwood and concrete floors, hot water heat, electric light, metal lath, tile and marble, steel sash, fire doors, iron stairs. Architect taking revised bids due as soon as possible.

Residences (2), Store and Residence (1), 201-03-05 North Forty-second street, Camden, N. J., $14,000. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owner, M. J. Jubanyik, Sixth and Penn streets, Camden, N. J. Brick and block, 2 stories, 18x40 feet and 18x32 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residences (2), 622-24 North Thirty-fifth street, Camden, N. J., $7,000. Architect, private plans. Owner, William T. Harker, 3410 Westfield avenue, Camden, N. J. Frame, 2 stories, 14x38 feet, slag roof, warm air heat, electric work. Permit issued.

Service Station, Federal street and Boulevard, Camden, N. J., $8,000. Architect, private plans. Owners, Gulf Refining Co., Pittsburgh, Pa. Brick, 1 story, 15x20 feet, slag roof, Spanish tile cornice coping. Permit issued.

Residences (7) 16-28 Terrace avenue, Camden, N. J., $4,000 each. Architect, private plans. Owners, Job A. Hendrickson & Son, 3514 Federal street, Camden, N. J. Brick, 2 stories, 18x32 feet, asphalt roof, hot water heat, electric light. Permit issued.

Residences (2), 1311-13 Chambers street, Trenton, N. J., $6,000. Architect, private plans. Owner, Nelson J. Perdunn, 233 William street, Trenton, N. J. Frame, 2½ stories, 16x38 feet, slate roof, pine floors, hot water heat, electric light. Permit issued.

Workhouse, Lakeland, N. J. Owners, Camden County Board of Freeholders, Camden, N. J. Concrete block, 1 story, red tile roof, electric light, capacity 64, office, dining room and kitchen. Work contemplated.

Hospital Buildings, Mt. Holly, N. J. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Burlington County Hospital, care of Mrs. V. C. Palmer, Moorestown, N. J. Brick, steel, concrete. Architects taking bids due December 22nd.

New Jersey Contracts Awarded

Apartment House, 117 South Illinois avenue, Atlantic City, N. J. Architects, McIlvaine & Roberts, Otis Building, Philadelphia. Owner, name withheld. Reinforced concrete, brick, cut stone, steel, 12 stories and basement, 55x94 feet, slag roof, cement floors, hollow tile, elevators, plumbing, shoring, waterproofing and dampproofing, architectural terra cotta, steam heat, electric light, metal lath, tile and marble work, hollow metal doors, bond, ornamental iron work, brass pipe. Contract awarded J. N. Gill Const. Co., City Center Building, Philadelphia.

Office, Apartments and Storage, Ocean City, N. J. Architect, George S. Idell, 1510 Chestnut street, Philadelphia. Owners, Keyhan Realty Co., Tenth and Asbury avenue, Ocean City, N. J. Brick, 2 stories, 2 wings, 30x50 feet, 20x40 feet, slag roof, hot water heat, electric light, tile work, cement and tile floors. Contract awarded D. A. McClelland, Drexel Building, Philadelphia.

Sales Building and Addition to Present Building, Haddon avenue and Secamore streets, Camden, N. J. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Pep Auto Co., Broad and Vine streets, Philadelphia. Brick, 1 story, 32x100 feet, slag roof, cement floors, plumbing, steam heat, electric light, flush bulks. Contract awarded H. A. Hopple, Heed Building, Philadelphia.

Lockhardt Dormitory, Princeton, N. J. Architects, Day & Klauder, Franklin Trust Building, Philadelphia. Owners, Princeton University, Princeton, N. J. Stone, concrete, cut stone, limestone, steel, brick, 4 stories and basement, 80x25 feet, wing 30x25 feet, Vermont slate roof, pine and cement floors, hollow tile, shoring, waterproofing, metal lath, terrazzo work, marble work, rolled steel sash, fire and kalamein doors, bond, bluestone. Contract awarded Matthews Const. Co., Princeton, N. J.

Residence (alts.) and Garage, 487 West State street, Trenton, N. J. Architect, W. A.

Klemann, First National Bank Building, Trenton, N. J. Owner, Herbert Margerum, 1120 Riverside avenue, Trenton, N. J. Stone, 1 story, 28x30 feet, concrete floors, hardwood and concrete floors general interior alterations, vapor vacuum heat, electric light, tile work. Contract awarded to Edward LaRue, 53 South Hermitage avenue, Trenton, N. J.

Garage, 325-27 Arch street, Camden, N. J., $30,000. Architects, Edwards & Green, 548 Federal street, Camden, N. J. Owner, M. C. Hechter, 604 Federal street, Camden, N. J. Block, 2 stories, 40x135 feet, slag roof, steam heat, electric light. Contract awarded to Smith Brothers, 603 Park avenue, Collingswood, N. J.

Residences (4), 953-55-61-63 Monitor road, Camden, N. J., $14,000. Architect, private plans. Owner, Peter Gondolf, 3001 Fenwick road Camden, N. J. Brick, 2 stories, 16x27 feet, slag roof, warm air heat, electric work. Contract awarded to Richard Gondolf, 3037 Fenwick road, Camden, N. J.

Storage Building, Third and Jefferson streets, Camden, N. J., $5,000. Architect, private plans. Owners, MacAndrews & Forbes Co., on premises. Block, 1 story, 36x171 feet 4 inches, slag roof, concrete floors. Contract awarded to Barclay White Co., 1713 Sansom street, Philadelphia.

Residences (2), 3060-62 Fenwick road, Camden, N. J., $7,000. Architect, private plans. Owner, Peter Gondolf, 3001 Fenwick road, Camden, N. J. Brick, 2 stories, 16x27 feet, slag roof, pine floors, warm air heat, electric light. Contract awarded to Richard Gondolf, 3037 Fenwick road, Camden, N. J.

Garages (10), rear of 951 Monitor road, Camden, N. J., $3,000. Architect, private plans. Owner, Peter Gondolf, 3001 Fenwick road, Camden, N. J. Brick and block, 1 story, 10x18 feet, slag roof, cement floors. Contract awarded to Richard Gondolf, 3037 Fenwick road, Camden, N. J.

Residence, Kensington avenue, Trenton, N. J., $9,500. Architect, private plans. Owner, Rex Traverton, Trenton, N. J. Brick, 2½ stories, 25x35 feet, slate roof, hardwood floors, electric light, tile work. Contract awarded to Howard Hartman, Morrisville, N. J.

Dye House (alts.), 1036-38 South Broad street, Trenton, N. J., $7,350. Architect, private plans. Owners, Royal Cleaning & Dyeing Co., 1038 South Broad street, Trenton, N. J. General alterations. Contract awarded to N. Milgaten, 53 Spring street, Trenton, N. J.

Garage, 521 South Warren street, Trenton, N. J., $5,800. Architect, L. S. Kaplan, Fitzcharles Building, Trenton, N. J. Owner, Joseph Sheins, on premises. Brick, cement block, 1 story, 39x48 feet, slag roof, concrete floors. Contract awarded to P. Unger, care of architect.

Residence, 402 Ashwood avenue, Trenton, N. J., $3,500. Architect, private plans. Owner, Lawrence Travers, on premises. Frame, 2½ stories, 14x42 feet, slate and tin roof, pine floors, electric light. Contract awarded to D. W. Pyle, 13 Greenwood avenue, Trenton, N. J.

Sewer Work, Wildwood, N. J. Owners, City Council, C. Heil, Jr., Wildwood, N. J. Sewer mains in principal streets. Contract awarded Versaggi Const. Co., Wildwood N. J., $24,000.

The impractical dreamers are not the architects, but the clients themselves, as a rule.

Miscellaneous Construction News

Church, Morgantown, W. Va. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, First Baptist Church of Morgantown, W. Va. Stone. Sketches being prepared.

Receiving Station, Clayton, Del. Architect, C. E. Wunder, 1520 Locust Street, Phila. Owner, Scott Powell Dairies, Clayton, Del. Brick, 2 stories, 35x50 feet, slag roof, cement floors, electric light. Owner taking bids due as soon as possible.

Bungalow, Arden, Del. Architect, W. K. Durham, 312 South Broad street, Philadelphia. Owner, Mrs. Albert T. Harby, 4620 Osage avenue, Philadelphia. Stone, 1 story, 30x50 feet, vulcanite roof, cement floors, electric light. Plans completed. Owner will take bids.

Proposal

ADVERTISEMENT FOR THE CONSTRUCTION OF A HIGH SCHOOL BUILDING AND ALTERATIONS TO THE PRESENT SCHOOL BUILDING FOR THE BOARD OF EDUCATION, MERCHANTVILLE, N. J.

Public notice is hereby given that sealed proposals for furnishing labor and materials to construct and equip, ready for furniture, a High School building; adjacent to and connected with the present Public School Building, and to make alterations in present building, will be received by the Chairman of the Building Committee of the Board of Education of the Borough of Merchantville at the School Building on Tuesday, December 28th, 1926, at 8 o'clock P. M., at which time all proposals submitted will be publicly opened and read.

The High School Building, includes the School, and Auditorium building. It is to be constructed with concrete and brick walls with concrete floors supported on a structural steel frame with fireproof construction. The building contains approximately 520,000 cubic feet. The alterations to the present building consist of changes in basement and first floor, as shown on plans and as specified.

Said proposals must be on blank forms provided by the Architect for that purpose and must be enclosed in sealed envelopes endorsed "Proposals for Merchantville High School' and must state the branch of work for which the proposal is submitted.

No bid will be considered unless accompanied by a certified check to the amount of five (5%) percent of the bid, binding the bidder to execute a contract if awarded to him, and also a statement from a surety company that it will furnish the contractor with a bond for the full amount of his contract, binding the bidder to execute a contract if awarded to him.

The terms of the proposal with surety required are fixed by the specifications, to which reference may be had. The right is reserved to accept any or all bids submitted, also to waive any informality in the same.

Copies of the drawings and specifications will be on file at the office of the Architect, Mr. Arnold H. Moses, Temple Bldg., Camden, N. J. A limited number of copies of said drawings and specifications will be loaned to prospective bidders, for the purpose of estimating on deposit of a certified check to the Architect's order in the amount of $25.00. If plans and specifications are returned to the Architect, within a reasonable time, and an estimate submitted, the check will be returned in full. Should plans and specifications not be returned nor an estimate submitted the deposit may be forfeited.

E. J. Frey,
Chairman, Bldg., Committee,

ARNOLD H. MOSES,
Architect.

Dated November 30th, 1926.

(Continued from page 792)

have learned riveting will stand the stress of weights and loads, the pull of movement and vibration.

America astounded the architects of the world back in the 80's by establishing a new school of architecture—the skyscraper. By means of these riveted steel columns rising tier upon tier to tremendous heights the real estate values of cities were trebled and the lives of multitudes made safe.

The dependability of riveting and its contribution to the progress and safety of humanity are reflected in every direction.

There is a field of usefulness for both welding and riveting. The dependability of riveting and its contribution to engineering progress are reflected in every direction and mere claims and propaganda for a radically different new method will not supplant it. Riveting is fundamentally sound, has played a very important part in the development of our most important industries and will only be supplanted by methods more economical, less dependent on skilled labor and assuring equal safety.

The conservation of human life and limb is a solemn duty not to be influenced by possible economies promised for a new method. The much discussed din of the riveting hammer is preferable to the possible loss of human life and property damage.

We are not opposing welding for it has a very useful field. In the interest of public safety we object to its improper and indiscriminate use.

The survey report on economics of short lengths in building lumber, prepared by the construction sub-committee of the National Committee on Wood Utilization of which Secretary of Commerce Herbert Hoover is the chairman, has been received from the Government Printing Office in galley form, and will

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probably be ready for distribution about January 1.

The report shows that for the buildings studied (various types of dwellings and barns and other farm structures) 20 per cent. of the lumber bill as an average could have been taken off the plans in lengths of 1 to 7 feet, though in the actual bills only 1½ per cent. of this was listed and mostly 7-foot. Following publication of the report a campaign of education will be inaugurated to get short lumber properly included in building lumber bills, as this is the first step to getting it actually ordered and used. It may be that the bidding lumber merchant may not have the specified short lengths and will figure them back into longer multiple lengths; but the lower price at which he can buy the short lengths will gradually bring about their actual stocking. With lumber properly listed in the bill the right way will become the easiest way.

Even before its publication the report has already been responsible for one notable step in this direction. A letter has been received from Findley M. Torrence stating that the Ohio Association of Retail Lumber Dealers of which he is the secretary, and which has a strong architectural department, has already started to refigure for its considerable series of house plans all the lumber bills to include the short odd-length material that the plans will take.

"We are inclined to feel," says Mr. Torrence, "that this method of approaching the problem . . will ultimately bring about the desired economics. We expect though to encounter some resistance at the outset." Any retailers however can readily convert the short lengths into long-length equivalents if necessary; while if the short lengths are not properly taken off the plans it is impossible to do more than guess how much or in what assortment the plan might take.

It must be a rather sound gospel that makes converts before there is opportunity to hear it. In this instance however much of the work of the architectural department of the Ohio Association is done by the lumber students at Antioch College, Yellow Springs, Ohio; and these same students, under supervision of Theodore F. Laist, its director of research in lumber retailing, assisted in the large amount of survey work which went into the short lengths report.

A supplementary report on end-matched short building lumber is in preparation as it is recognized that this offers even greater economies than the use of ordinary short lumber; and it is believed these economies will eventually bring it into use for all matched patterns, such as ceiling, drop siding and even sheathing and sub-flooring, in addition to the finish flooring where it first appeared in softwoods.

LUMBER IN THE WAKE OF TWO HURRICANES

BY E. MARK FERREE

The Southern Pine Association

There are many kinds of buildings, various methods of construction and a diversified array of building materials. Man made tests too numerous to mention have been taken in a thousand and one respective instances, but it is safe to say, that no one test has been common to all, and this has stood where that has failed.

Only by following in the wake of two hurricanes, each of the terrific velocity of more than 130 miles an hour, sparing nothing of the vicious and ever constant torment of their untold strength, can a true and impartial opinion of the hardiness of the subjected area be arrived at.

Wood, age old as a successful building material, has stood the acid test.

Following through from New Orleans, a city of staunch building proportions, to Pensacola, Fla., subjected to the disastrous tropical hurricane of September 18, to West Palm Beach, Hollywood and the Miami area, on to Key West, Havana and interior Cuba, just now lifting their bleeding heads from a terrific twister of October 20, rivaling only that which swept South Florida, a good idea has been gained of the type of building which still stands. Throughout the zones of both storms it was found that the buildings best withstanding were of a common type of wood frame construction.

However startling this statement may seem when thought is given to historic Havana where lumber construction has been barred by its building code over a period of years, and the weather beaten and thatched interior of Cuba, it nevertheless is true, as the impartial observer can see.

At New Orleans where hurricanes and tropical storms of varying intensities have been far from uncommon during its more than 208 historic years, even an eye unpracticed in judging the best in building methods can detect a staunchness and strength which gives security. Pine frame construction is seen at every hand, not only including a majority of the homes, but warehouses and business buildings of one, two and three stories in height. To the casual visitor the city lends an atmosphere of security and soundness, although in many cases the exact cause must be totally unsuspected. The one outstanding reason is that the city stands as a tribute to thorough building methods and an unlimited use of wood.

Morgan D. E. Hite, a widely known architect of New Orleans, points out in an article on the disastrous hurricane damage in Florida that the city has been built throughout its years under the stress and fear of impending storms, and that as a result a definite type of home building which is safe and proved has been designed and become universal throughout the Mississippi Gulf Coast.

This is the pine frame thoroughly bolted, braced, bridged, nailed and spiked strutted, being made as snug as possible, Mr. Hite says.

Seeking to follow in the wake of the hurricane at Pensacola, a scant two weeks after the visitation of a wind velocity reaching a height of 152 miles an hour and lasting for more than five hours, little or no damage could be found in the city proper, while in the outlying sections homes were in good condition with only here and there a weakly built shack or shed down. Of course, Pensacola's docks in many places were washed out due to high waters, and many waterfront shacks were razed, but this was of little consequence when compared to the well built structures throughout the area which stood.

C. H. Turner, a widely known contractor of Pensacola, estimated that 80 per cent. of the city's homes are built of wood and like New Orleans, it has been built in constant knowledge that hurricanes and severe storms are an ever constant menace to life and property. Therefore, Mr. Turner said, the construction in general is of the best, wind braced and shuttered. He pointed out with pride the fact that of probably 10,000 houses in the city 8,000 are of pine frame construction and many have stood through hurricanes over a period of years.

Mr. Turner cited the construction of approximately 75 to 100 houses in the past, and all were of frame design. In many cases, he said, they had been finished in veneer brick or stucco, but that primarily they are of wood.

Walker D. Willis, a Pensacola architect, concurred with Mr. Turner in his views of wood construction in Pensacola as did C. L. Griffin and John Massey of the Pensacola Home and Savings Association, a prominent building and loan company. All pointed to good construction and the use of wood in accounting for the remarkable manner in which their city has stood in the face of the hurricane.

Pensacola stands today as a monument to thorough building methods while her sister cities made up largely of other materials are even yet counting their losses.

On through Florida and down the East Coast to West Palm Beach it was found that in every city builders of all lines were taking inventory of not what had failed, but that which has stood. With pride they pointed to lumber houses ten, thirty and often fifty years old intact while on many sides were the ruins of later companions of the "new age" and of new materials.

Arriving in West Palm Beach on the morning of October 21, the town was found in absolute barricade for during the night side wind had been felt of the storm which had swept Havana and Cuba the day before. The residents were taking no chances, casting their eyes a few scant miles southward and seeing the Miami area slowly rising from the ruins of the hurricane only a month previous.

Here begins much of the shoddy construction which resulted in such a heavy toll at Miami, and West Palm Beach was taking no chances. During the night many had gathered in buildings known to be well built. One man told of housing 16 persons in his home which was of pine frame construction and had been built for 29 years.

Buildings and homes of West Palm Beach suffered little or no damage from either hurricane for they were not in the direct paths, but many of the residents lived in fear for they did not find confidence in the homes and buildings of a common type which had failed so miserably at Miami. Several contractors and architects interviewed said that from studies of the Miami situation the wood construction of their city probably would have stood where buildings of other types would have failed had they been hit.

Much already has been written of the storm torn path from a few miles south of West Palm Beach to Miami, but looking over the building situation here in comparison with other parts subjected to the storm and still intact, it is found that the wood frame type was almost entirely lacking, but the few sterling examples of its true worth are still to be seen. Ruins and wreckage are to be seen at every hand, but here and there, dotting the landscape in pleasant relief, stands a wood home or building.

Stories, too numerous to attempt to tell, are related by persons throughout the devastated district. They run in a single channel, in that nearly every one points to the fact that this house or that building housed so many at the height of the storm while on all sides other buildings crashed, lives were lost and damage great. Excepting some of the large hotels and business structures, the buildings referred to were of lumber.

Hollywood, Hallandale and Dania are arising from the ruins and rebuilding. In many cases residents are replacing their homes by tattered parcels of what was, but at the same time others are taking heed of the past and are rebuilding in wood.

At Miami a great deal of the storm damage has been eradicated, but here as in the rest of the area are seen wood structures towering over empty spaces or ruins where formerly stood pretentious neighboring homes.

The lumber dealers of Miami have taken time by the forelock and with the help of the Southern Pine Association are erecting a model home of frame construction. It is being designed to resist hurricanes and severe storms, and will be built in connection with an extensive educational campaign being conducted throughout Florida by the Southern Pine Association.

The lumbermen are being assisted by Miami architects and contractors, and are taking timely advantage of the lessons in construction learned from the hurricane.

In Miami as elsewhere stories of heroic homes and buildings saving the lives and possessions of hundreds of persons are rampant. In almost every case it is found that these are homes in the old parts of the city. Homes erected years ago, and of wood construction thoroughly built.

From Miami to Key West, a typical hurricane city in that it is built to withstand the worst in severe winds and storms, little damage was found. Of course this area was not subjected to the strongest of the winds, and there are few residents or buildings within its limits, verging upon the Florida Everglades. However, Key West, which the day before had experienced a wind velocity of more than 100 miles an hour, was found in excellent condition with nothing to indicate hurricane winds except the almost complete shuttering of windows and doors.

Here one finds practically nothing but pine frame construction, staunch and sturdy from the first. Homes and business buildings are of a common type of wood. Thorough bracing, strutting and shuttering are seen on every hand. Key West is not taking a mournful toll of life and property today.

It is the southermost city of the United States, and is a strategic point in the defense of the country. The government sets an excellent example in its construction of numerous buildings there—all of wood frame. The Key West Naval Station is the scene of universal wood construction.

From a city of wood to a city of stone —Key West to Havana. Here the building code bars the use of wood, but today broken cornices are being replaced, gutted walls are being rebuilt, shattered roofs are being repaired while out on the hills away from the city real estate subdivisions built much in the same manner as those of Miami barring the use of wood, are lying devastated, a total loss. In these places there was no wood construction and very little of stone as in Havana.

The city of Havana did not suffer greatly from a building standpoint. In all fairness, it must be said that the massive solid stone architecture of which it is almost entirely built is standing unscathed today. Walls are of great thickness, the buildings have been erected with the utmost time and care.

But looking from the Havana of stone to the Havana of wood. The latter truly is a small part, but it stands proudly intact—as much as its brother of stone. The Havana of Wood includes the ancient parts of the city which have been settled for years back.

Out from the city once again are heard stories of heroic buildings, for a good building sheltering lives and property in the teeth of a 150 mile gale is truly heroic. Fred M. De Stefano, a member of the staff of Jose Emilio Obregon, son-in-law of President Machado, and director of the Presidential Palace, related with pride the story of his home in Mariano just out of Havana. It is built of pine frame of the old school of construction and stands today in the midst of ruins of other types. Mr. Stefano was profuse in his praise of wood construction and said that he considered his home safe to other structures appearing and purported to be of greater strength.

On into the interior of Cuba down to the Batabano on the South Coast one finds varying types of buildings ranging from dirt and thatch huts to frame and stone buildings of more pretentious character. Here is where the great damage and loss of life was wrought by the hurricane. The country spaces were laid waste and the flimsy homes and buildings were razed. But even here some homes and the few buildings of wood are seen standing.

At Batabano the story is told of a single house with 32 persons in it being carried more than 200 feet, but holding together and safeguarding the entire company.

Such examples could be carried on at length, but the lone and outstanding fact would force itself above all others—wood construction has stood in the face of two of the most disastrus hurricanes ever known when other building materials have not.

THE VALUE OF HOLLOW AIR SPACE INSULATION IN MASONRY WALL CONSTRUCTION VERSUS PAR-LOCK SIDE WALL PLASTERING

BY MAJOR M. B. CARSON

The value of insulation of the hollow air space in masonry wall construction, developed by wall or furred tile, placed with webs perpendicular or horizontal, has ofttimes been disputed.

Its efficiency has been originally based on the assumption that if an air space was positively tight, that the dead air would prove a direct resistance of cold or heat.

Assuming this theory to be correct, long experience and close investigation of wall conditions have proven that there is always present sufficient wall leakage to render the air space active and in more or less circulation rather than dead.

The web marking of tile, when plastered direct without a dampproofing course, has shown an effect of conductivity producing condensation that has been misconstrued to mean a loss of heat at the web points greater than that developed through the air space of the tile.

This feature has caused some builders to set furring tile away from the main wall, so as to produce an unbroken air space between the tile and the masonry wall. This tends to reduce an effect of tile marking but does not lessen the loss of heat.

A recent publication by The Honorary Advisory Council for Scientific and Industrial Research, of the Dominion of Canada, shows the passage of British Thermal Units per degree per hour per square foot to be

"A"—8 inch solid masonry side wall construction, built of hard burned common bricks was .397 B.T.U.'s.

"B"—8 inch hollow tile wall with flues placed vertical unplastered was .416 B. T.U.'s.

"C"—The same as "B" only with the air space filled with dry gravel was .355 B.T.U.'s.

The above findings were from a series of determinations made to prove the "TRUTH" regarding the efficiency in the air space. Note that when the flue was filled with gravel, thus confining the air space to small and much broken compartments interrupting circulation, in a manner similar to air space in cork insulation boards, the transmission was immediately lowered, proving also that greater transmission was through the air space in the flue, than through the web or solid sections.

Having established these facts, other tests on 12 inch tile were made as shown below.

"A"—12 inch tile with flues laid horizontal was .295 B.T.U.'s

"B"—12 inch tile wall as above, with a heavy coating of asphalt paint on the high temperature side of the wall was .206 B. T. U.'s

"C"—12 inch tile wall as above, plastered on both sides, plaster being 5-8 inch thick was .179 B.T.U.'s.

Considering the difference in the thermal conductivity as shown in "A" and "B" walls, the loss of heat through a 12 inch solid brick surface, dampproofed and plastered, would have shown less than that shown on the tests developed on 12 inch tile.

On page twenty-six of this issue the following is observed.

"FIRST"—The term "DEAD AIR SPACE" is a misnomer in ordinary building construction. If an air space is wide enough to permit air to circulate within it, the effect will be to assist the inside heat to escape to the outside shell of the wall.

"SECOND"—This movement of air takes place in nearly all of the commonly used types of hollow wall construction, whether they be of individual, hollow blocks or thin monolithic walls cast with a space between them.

In comparing the insulation qualities of Par-Lock plastering on solid brick, masonry or concrete walls let us consider the interior structural surface of an exterior wall to be covered with a coating of asphalt for dampproofing purposes. The characteristic of the asphalt when properly applied, will prevent any ingress or egress of air through the structural wall. This condition being present the air which is confined in the structural wall itself instead of passing through the wall (which it would do if the asphalt on the interior face of the walls were not present) remains trapped in the wall and causes a section of the wall next to the asphalt coating to function in a much higher state of insulation than when air filtration is permitted.

Shortly after the last course of asphalt has been applied by air pressure through the Par-Lock Gun, the grit or plaster key is blown into the still plastic asphalt and the whole allowed to set up for at least three days. When the grit is applied it is not forced through the coating of asphalt but is merely imbedded in it so that no particle of grit comes in contact with the structural surface. After the plaster has been applied to this Key, the Key, and the plaster are separated from the structural surface of the interior wall by an unbroken sheet of pure asphalt, the properties of which produce the desired dampproofing and air sealing effect. The positively air sealed surface and the suction produced by the dry grit develops the highest crystallization in the plaster and causes it to dry out, bone dry and remain so. This produces plaster that is permanently functioning at its highest value in insulation.

Thus, although Par-Lock in itself cannot be considered of any material insulating value, it develops, in combination with masonry or concrete structural bodies and Gypsum Plaster the highest state of insulation to be produced with these materials.

From the preceding it will be seen that a solid brick wall insulated and protected in the manner produced by the Par-Lock method, is the warmest type of wall. This we consider has been adequately proven by the number of different characters of buildings which have been plastered in this manner, over different types of solid side wall construction, from San Francisco to Boston, and throughout the humid districts of the United States. These walls remain free from condensation, and many of them have delicately shaded decorations. The destructive effect that condensation would have on them has not been observed.

It should be further considered that the labor and part of the material in applying the scratch coat of plaster is saved.

Now, the chief features that are accomplished in using Par-Lock plastering on side walls are as follows:

Walls that will produce the greatest possible saving in the coal pile being and remaining positively tight, eliminating the filtration of air or moisture.

A longer life of the decorative coatings that will remain free from stain, discoloration, the breaking down caused by condensation, the infiltration of air or moisture against the back of the decorations.

Plaster materials, carbonized and crystallized to their fullest strength. When hydrated lime is used for finish it is hydrated after application so thoroughly that popping and peeling of the finish coat is eliminated.

For the first time in the history of the construction industry the advent of winter is seeing an increase in the volume of construction operations. So great was the activity last month that a new record for November was set, according to statistics compiled by the Associated General Contractors of America.

By registering a marked increase over the October figure, the volume of activities in November approached the high mid-summer levels. The most recent developments place 1926 well ahead of 1925, when all previous records for volume of construction under way were broken. The first 11 months of the current year register a volume almost 2 per cent. greater than that recorded during the corresponding period of 1925.

An index based upon the 1913 average as 100 shows the November volume to have reached the 210 level, an increase of 10 points over October. In other terms, November showed an increase of 5 per cent. over the volume of work under way in the preceding month.

In 1925 a decline of seven points was recorded for November. This was in accordance with the long prevalent tendency of construction operations to slow down with the opening of winter.

The unusual condition this year is attributed to the irresistible demand for construction which has been felt throughout the year and to the effects of earnest efforts to wipe out ineconomies resulting from short building seasons.

Reference Directory for Architects, Builders and Owners

ARCHITECTURAL CAST CUT STONE
Architectural Cast Cut Stone Co.....Westmont, N. J.

AREA GRATINGS
Irving Iron Works.....1015 Chestnut St., Phila.

ARTESIAN WELLS
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BLUE PRINTS
Blue Print Shop .....1520 Sansom St., Phila.
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.
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Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

BLUE PRINT PAPER
Blue Print Shop .....1520 Sansom St., Phila.
Robbins, Chas. H., Co. ....1729 Sansom St., Phila.
Weber, F., Co. .....125 S. 12th St., Phila.
Weil, J. H., Co. .....1315 Cherry St., Phila.

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Excelsior Brick and Steel Sales Co.,
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Reisbord, Wolf .....138-140 N. 55th St., Phila.

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Philadelhia Gas Range Co. ...1026 Arch St., Phila.
Thomson. Wm., Inc. .....64 N. 2nd St., Phila.

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Architectural Cast Cut Stone Co.....Westmont, N. J.

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Bowers Bros. & Co. .....2015 Sansom St., Phila.
Lewis, John W. .....7038 Gray's Ave., Phila.

HEATING BOILERS
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Benjamin Foster Company,
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Master Builders Co. .....Otis Bldg., Phila.
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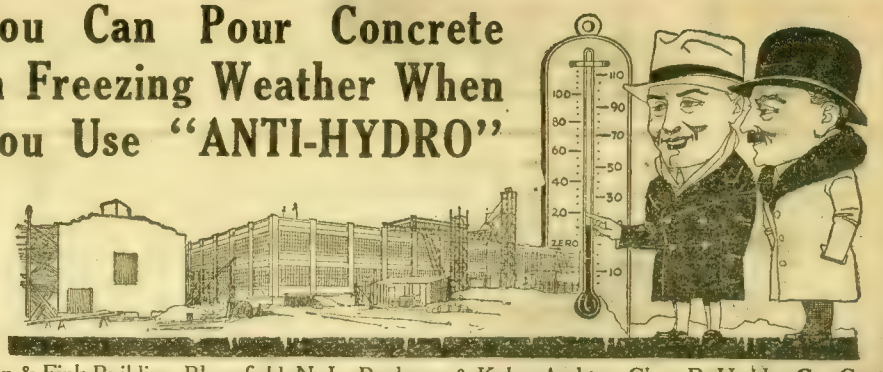
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Builders' Guide

Entered at the Philadelphia Post Office as Second-Class Matter

Vol. XLI, No. 51
December 22, 1926

Issued Weekly in the Interests of Architects, Structural Engineers, Contractors and the Material and Equipment Trades

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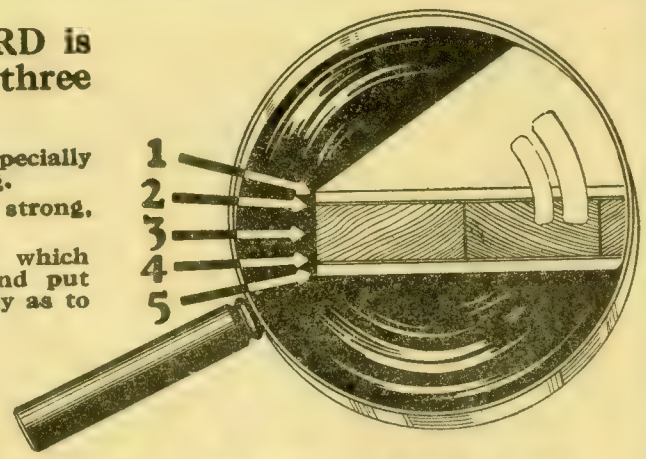
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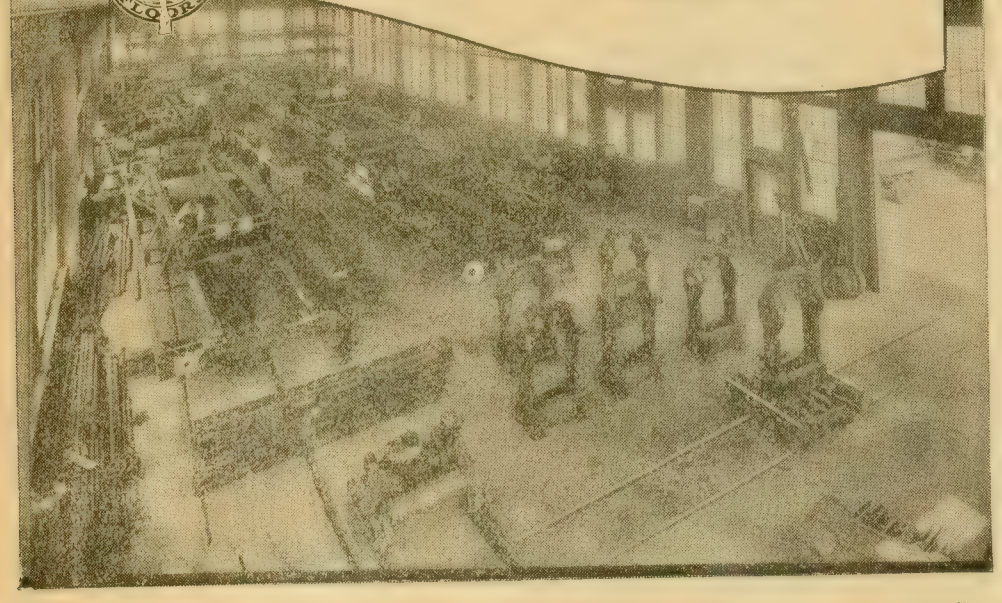
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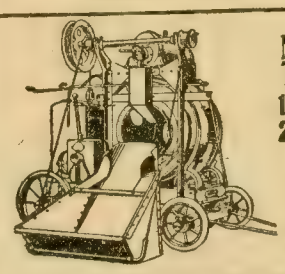
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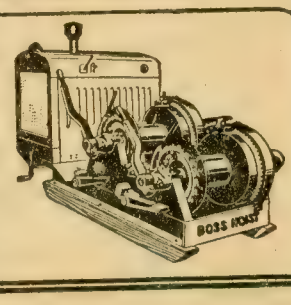
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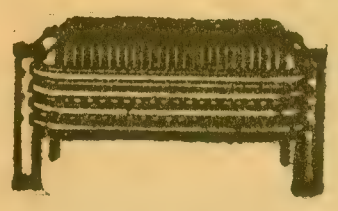
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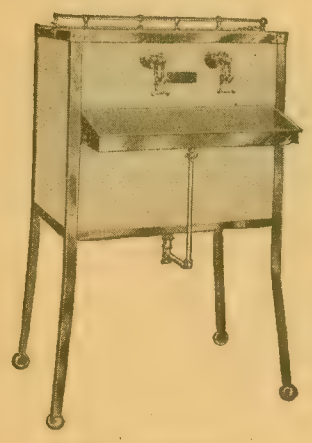


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BUILDERS' GUIDE

Devoted to the Advancement of American Architecture, Structural Engineering and the Building Trades

VOLUME XLI
Number 51

PHILADELPHIA
December 22, 1926

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As The Editor Sees It

MERRY CHRISTMAS! We utter the time-worn phrase so gibly, and often without any thought of its real significance. How little we realize all that Christ's birthday really means to us. The great Christmas sentiment of kindness and love for our fellow men is expressed by our gifts to one another or still better by acts of service and charity.

Whether we profess belief in Christianity or not, there are very few of us who would choose to live in a country or community untouched by the influence of Christianity; and all that we hold dearest and best in our own great country is an outgrowth of Christ's principles and teachings; the very framework of this great republic is based on Christianity. All our policies of freedom, equality, and justice were first taught by the great teacher. There have been many other great prophets and teachers, but the only utterly unselfish doctrine ever taught was that of Christ.

As we look forward we can prophesy another year of good business and prosperity. The boom times in the building game have probably passed, but all indications are for a continuation of satisfactory business conditions.

Let every man examine his conscience and determine whether he is applying the Golden Rule of Christianity to his business, for in so doing he will merit not only material success and prosperity, but a great moral and spiritual satisfaction, and not until then can he realize to the fullest extent the great portent of our Merry Christmas.

Construction costs are holding fast to the low level they assumed last August. The average of these costs for the past four months is the lowest recorded during any similar period since March, 1923, according to statistics compiled by the Associated General Contractors of America.

While a slight increase was noted during November, the change merely brought the cost average back to the position it occupied in July and August before dropping a trifle in October to reach the lowest point in two and one-half years.

The rise noted during November was the reflection of a small margin of increase shown in the prices paid for sand, gravel, stone and common brick in several sections of the country.

The November average occupied the 196 level on a scale which places the 1913 average at 100. The October mark was 195. At no time during 1926 has the average risen above the 200 level, a mark which was reached or exceeded in seven of the months last year.

The average of wages paid the building trades in the principal construction centers remained unchanged during November. Wages have held virtually one level since last May, when they reached the record-breaking point of 228 on a scale based on the 1913 average as 100. The November mark was 225.

The average of prices paid for construction materials occupied the 176 mark at the beginning of the current month.

Approaching weeks will witness the greatest volume of mid-winter construction operations ever undertaken in the United States. This is the conclusion drawn by the Associated General Contractors of America from a series of statistical studies just completed

The prediction of intensive building activities is based largely upon the fact that the record-breaking demand for new construction gives small indication of diminishing. The latest statistics show this demand to have been so great last month that a new November record was

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Direct evidence that a vast amount of building is ready and anxious to get under way is being offered. The volume of contracts awarded during the first 10 months of 1926 is 8 per cent. greater than the total for the corresponding period of 1925. The volume of construction actually undertaken in 11 months this year is approximately 2 per cent. greater than the volume registered in the same portion of 1925. Thus, it is pointed out, a vast margin of contracts awarded has been built up during the year and represents proposed activities which will get under way at the earliest convenient time.

The volume of building permits issued during October showed an amazing increase over the previous month, reaching the greatest proportions registered in any single month this year. October also saw the establishment of a new record for awards of contracts in that month.

The following ideas of some standard specifications for contractors was submitted to us as interesting reading, and we pass this along to our readers so they too may have a laugh. An experienced, successful contractor, one that has done work of no small proportions is author of the suggestions entitled, "Standard Specifications for Contractors."

STANDARD SPECIFICATIONS FOR CONTRACTORS

General Conditions

INTERPRETATION: The plans and specifications are to be taken together. Anything shown on the plans and not mentioned in the specifications and anything mentioned in the specifications and not shown on the plans, is to be considered as both shown and specified, and anything wanted by the architect or any of his friends, or by anybody else (except the contractor) shall be considered as shown, specified, implied and required, and shall be provided by the Contractor without expense to anybody but himself.

If the work has been done without expense to the contractor, the work shall be taken down and done over again until the expense is satisfactory to the architects.

ARCHITECT: The term "Architect" herein appearing, shall be understood to mean the architect or any uncivil and unsanitary engineer that he may foolishly employ to assist in making trouble for the contractor.

PLANS: The plans are to be considered diagrammatic and disgraceful and are to be followed only where space conditions make it possible to avoid doing so.

Coincidence between plans and executed work shall not be considered a claim for extra compensation. The architect is not required to recognize coincidence.

Anything that is right on the plans is to be considered right. Anything that is wrong on the plans shall be discovered by the contractor and shall be made right without telling on the architect or indicating it in the bills.

Anything that is forgotten or left out of the plans and specifications, but which is necessary and required for the comfort and convenience of the owner, whether he thought of it before or after the execution of the contract, shall be provided by the contractor to the satisfaction of everybody (but the contractor) and in full accord with the evident intent and meaning of the specifications, without extra cost to anybody but the contractor.

RULES AND REGULATIONS: The work throughout shall comply with all rules, regulations, caprices and whims of all City, County, State, National and International Departments, Bureaus and Officials having or not having jurisdiction.

MATERIALS: All material shall be the best of their several kinds and the contractor is expected to know and provide the best, irrespective of what is specified in detail.

The architect reserves the right to change his mind about what is the best.

Any changes necessary to make the work and material fit to the minds of the architects, shall be made by the contractor without extra cost.

PERMITS: The contractor shall obtain all permits and shall pay all fees, annual dues, assessments, subscriptions to masked balls, organizations, outings and for all hat checks.

DAMAGE: Any damage done by the contractor shall be paid for by the contractor as liquidated damages and not as a penalty.

GUARANTEE: The contractor shall guarantee, and hereby does guarantee that he will keep in complete and perfect working order anything that the architect asks him to, as long as there is more work in sight in the architect's office.

ARBITER: In case of any dispute arising as to the nature, character or extent of work, shown, specified, or implied, the matter shall be decided by referendum

(Continued on page 817)

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Advance Construction News

CONTEMPLATED CONSTRUCTION; ARCHITECTS AND OWNERS; LAST DAYS FOR FILING BIDS; CHARACTER OF MATERIAL AND EQUIPMENT REQUIRED; ADVANCE INFORMATION IN EVERY PHASE OF NEW CONSTRUCTION

Apartment House, N. S. Pine St., E. of Broad St., Phila. Owner, care of Sol. Marcus, 5920 Spruce St., Phila. Brick, steel, limestone, terra cotta, 12 stories, 47x80 feet. Preliminary sketches being drawn.

Office Building, 204-212 S. 7th St., Phila., $1,000,000. Architect, R. B. Bencker, Bellvue Ct. Bldg., Phila. Owners, N. W. Ayers & Son, 308 Chestnut St., Phila. Brick, steel, stone, 9 stories, 115x103 feet, limestone. Preliminary plans in progress.

Garage, Leiper St., Frankford, Phila. Architect, J. Ethan Fieldstein, Otis Bldg., Phila. Owner, Stanley Construction Co., 713 Lincoln Bldg., Phila., care of Levin & Soffian. Brick, steel, 1 story, 80x2[illegible] slag roof, concrete floors, electric light. Owner taking bids due as soon as possible.

Sewer Work, Phila. Owner, Dept. of Public Works, Bur. of Water, 216 City Hall. Owner taking bids due Dec. 29th at noon. Inquire Room 416, Schedule A Main Sewers: G St. No. of Luzerene St. to Luzerne. Packer Ave. 2nd to 4th Stetc; Washington Lane, Chew to Boyer, Schedule B, Sewage Disposal project, 80th St. Collection Sewers. Certified check, 5%.

Bank Building, Fifth and Erie avenue, Philadelphia. Architects, William Steele & Son, Fifteenth and Cherry streets, Philadelphia. Owners, Erie National Bank, on premises. Brick, stone, 29x70 feet. Preliminary plans in progress.

Maternity Building, Dispensary, Children's Ward, Front and Lehigh avenue, Philadelphia. Architects, Stewardson & Page, 315 South Fifteenth street, Philadelphia. Owners, Episcopal Hospital, C. J. Gill, superintendent, on premises. Brick, steel, stone, terra cotta, 3 stories and basement, various sizes. Preliminary plans in progress.

Stores (4), Apartments (8), Forty-fifth and Walnut streets, Philadelphia. Architects, Folsom, Stanton and Graham, 10 South Eighteenth street, Philadelphia. Owner, H. J. Rittenhouse, Ardmore, Pa. Brick, 2 stories, 20x80 feet each, slag roof, hardwood floors, hot water heat, electric light, tile work, plate glass, metal bulks. Plans in progress.

Auto Sales Building (add.), Chelten near Green, Germantown. Architect, R. W. McCaskey, Otis Building, Philadelphia. Owners, Rittenhouse Motor Co., Mr. Thayer, on premises. Brick, steel. Plans in progress.

Convent, 8500 Frankford avenue, Philadelphia. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Dominic's Roman Catholic Church, Rev. Henry I. Connor, 8504 Frankford avenue, Philadelphia. Stone, 3 stories. Sketches in progress.

Building (add.), Sixteenth and Fairmount avenue, Philadelphia. Architect, private plans. Owners, Gaulderr & Shearer, on premises. Brick, steel, concrete, 2 stories, 54x100 feet, slag roof, cement floors, electric light. Plans in progress. Owners will take general bids.

Residence (alts. and add.), 1531 North Thirtieth street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, L. M. Rubin, 406 City Center Building, Philadelphia. Rear add., brick, 1 story, 16x16 feet, tin roof, pine floors, cement work, concrete foundations, electric light, changes to heat, concrete slab construction, plastering, reinforced structural steel. Owner taking sub-bids. Owner asking for price on oil burner for residence.

Residences (76), Wendova, Roxborough, Pa. Architect, private plans. Owner, Harry Elkins, 836 North Holly street, Philadelphia. Brick, steel, 2 stories, slag roof, oak and pine floors, tile work, ornamental iron work. Owner taking sub-bids.

Garage, Thirtieth and Sedgley streets, Philadelphia. Engineer, P. M. Colen, 2603 Poplar street, Philadelphia. Owner, name withheld. Brick, reinforced concrete, steel, 2 stories, 179x90 feet, slag roof, cement floors, steam heat, electric light, rolled steel sash, ornamental iron work, ramps. Engineer taking sub-bids.

Willow Sub-Station, Northeast Corner Ninth and Willow streets, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, reinforced concrete, steel, cut stone, 6 stories and basement, 85x95 feet, slag roof, cement floors (plumbing, heating, electric light, steel sash, elevators reserved), metal lath, rolled steel sash, ornamental iron work, waterproofing. Architect taking bids due December 28th.

Washington Sub-Station, Twenty-fourth and Washington avenue, Philadelphia. Architect, John T. Windrim, Commonwealth Building, Philadelphia. Owners, Philadelphia Electric Co., Tenth and Chestnut streets, Philadelphia. Brick, steel, cut stone, 1 story and basement, 144x62 feet, slag roof, cement floors, plumbing, waterproofing, metal lath, marble work, rolled steel skylights, bond, ornamental iron work. Architect taking bids due December 30th.

Bank and Office Building, Broad and Walnut streets, Sansom street, Philadelphia, $10,000,000. Architects, Simon & Simon, 249 South Juniper street, Philadelphia. Owners, Fidelty Building Corporation, care of Fidelity-Philadelphia Trust Co., William P. Gest, president, 325 Chestnut street, Philadelphia. Graniee, steel, brick, reinforced concrete, 30 stories, 220x175 feet, steam heat, electric light, metal lath, tile, marble and terrazzo work, elevators, terra cotta, bronze work, ornamental iron work, bond. Architects taking bids due January 10th, 1927, at 10 A. M.

Laundry Building, Sixth street, North of Lehigh avenue ,Philadelphia. Engineers, H. M. Wilson Co., 20 South Fifteenth street, Philadelphia. Owners, Tremont Laundry Co., 629 West York street, Philadelphia. Brick, cut stone, steel, 1 story, 54x138 feet (electric and painting reserved), slag roof, cement and oak floors, hollow tile, plumbing, rolled steel sash and skylights, fire and kalamein doors, bond, iron stairs, ornamental iron work, limestone. Engineers taking bids due January 3rd.

Alterations, 120-122 North Seventh street, Philadelphia. Architect, Max Bernhart, 127 South Eighteenth street, Philadelphia. Owners, Southern Bookbinding Co., on premises. Brick, steel, concrete, 8 stories and basement, 34x70 feet, slag roof, cement floors, elevators, steam heat, electric light. Architect taking bids due December 31st.

Residence (alts. and add.), 602 Spruce street, Philadelphia. Architect, Jacob Naschold, 5234 North Second street, Philadelphia. Owner, Dr. Julius Wolfson, on premises. Brick, steel, 12 and 1 story and basement, 36x11 feet, garage 15x22 feet (electric reserved), hot water heat, slag roof, cement and oak floors, brownstone, plumbing, ornamental iron work. Architect taking bids due December 23rd.

Apartment House and Garage, 1719 Wallace street, Philadelphia. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, J. Mustara, 5007 Chestnut street, Philadelphia. Brick, 3 stories, 20x80 feet, slag roof, hardwood floors, hot water heat, electric light, tile work. Architect taking bids due as soon as possible.

Apartment House, West Twenty-third street, South of Tioga street, Philadelphia. Architect, J. Ethan Fieldstein, Otis Building, Philadelphia. Owners, Tioga Apartments Corporation, care of Brown Brothers, Fox Building, Philadelphia. Brick, concrete, cast stone, steel, 4 stories and basement, slag roof, oak and pine floors, elevators, plumbing, painting and glazing, steam heat, electric light, tile and marble work, metal lath, ornamental iron work. Owner taking bids due as soon as possible.

Alterations, 128 South Nineteenth street, Philadelphia. Architect, Max A. Bernhardt, 127 South Eighteenth street, Philadelphia. Owner, Isaac Grossman, on premises. Limestone, steel, painting and glazing, plastering, mill work, steam heat, electric light. Architect taking bids due as soon as possible.

Store Building, 904-06 Chestnut street, Philadelphia. Architect, Solomon Kaplan, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Architect taking bids due December 24th.

Hauling Cinders, Queen Lane Pumping Station, Philadelphia. Owners, Department of Public Works, Bureau of Water, 216 City Hall. Owners taking bids due December 27th at

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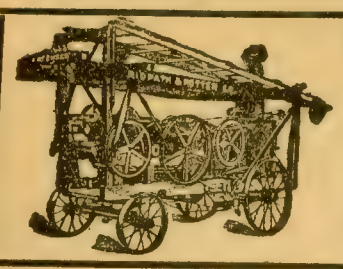
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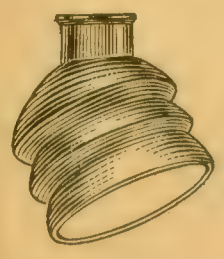
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Residence, South side Stanwood street, West of Frontenac street, $4,500. Architect, private plans. Owner, Peter Heidt, Jr., Stanwood and Frontenac streets, Philadelphia. Frame, 1 story, 24x36 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

Residences (2), West side Sixty-third street, North of Girard avenue, $30,000. Architect, private plans. Ownerf, Ray E. Seyler, Inc., 6932 Market street, Philadelphia. Brick, 3 stories, 20x48 feet, hardwood and pine floors, hot water heat, electric light, tile work. Permit issued.

Work Shop, South side Worth street, East of Margaret street, Philadelphia, $15,000. Architect, Samuel Abramson ,2313 Walnut street, Philadelphia. Owner, Robert Tarlo, 415 South Fifth street, Philadelphia. Plans filed.

Store, West side Wayne avenue, South of Washington lane, Philadelphia, $7,000. Architect, W. K. Henkels, 6225 Wayne avenue, Philadelphia. Owners, Kraekel Brothers, on premises. Brick, slag roof, steam heat, electric light, steel sash, ornamental iron. Permit issued.

Residences (20), East side N street, North of Luzerne street, Philadelphia, $71,000. Architect, private plans. Owner, Matthew Dougherty, 5163 North Hutchinson street, Philadelphia. Brick, 2 stories, 16x28 feet, 12x10 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Residence, North side Grovers avenue, East of Eighty-fourth street, Philadelphia, $2,500. Architect, private plans. Owner, John McEnhill, 8311 Eastwick avenue, Philadelphia. Brick, 1 story, 14x30 feet, slag roof, pine floors. Permit issued.

Residence, Somerton avenue, West of Gifford street, Philadelphia, $6,500. Architect, private plans. Owner, Charles T. Ely, Somerton, Pa. Frame, 2 stories, 25x31 feet, hardwood and pine floors, hot water heat, electric light. Permit issued.

Garage, Tusculum street, West of C street, Philadelphia, $5,000. Architect, private plans. Owner, James E. Smith, 2632 Frankford avenue, Philadelphia. Brick, 1 story, 88 x irregular, slag roof, cement floors, electric light. Permit issued.

Residence (alts.), 2050 East Arizona street, Philadelphia, $2,000. Architect, private plans. Owner, Herbert Radue, 1901 North Mascher street, Philadelphia. General alterations. Permit issued.

Supplies, Philadelphia. Owner, E. J. Lafferty, 329 City Hall, Philadelphia, taking bids due December 27th at noon. Extraction of naphtha, fire clay, cement, fire brick, iron castings, stationery, etc. Certified check, 5 per cent.

Supplies, Philadelphia. Owners, Board of Education, W .Dick, Nineteenth above Chestnut street, Philadelphia. Owners taking bids due January 4th at noon. Lumber, steel locker brushes, bench legs, wood working benches, equipment, pipe, wire, shellac.

Miscellaneous Work, Philadelphia. Low bidders. Owners, Department of Public Works, Bureau of Highways, Philadelphia. Longshore, Martin's Mill road and Oakley street, Philadelphia, Morrissey Brothers, 4345 North Seventh street, Philadelphia ,$1,190.04. Fifty-ninth street, Elmwood to Theodore, Clifford Gerloch, Philadelphia, $5,093.28. Malvern, Fifty-seventh to Fifty-eighth streets, Barber Asphalt Co., 1600 Arch street, Philadelphia, $6,106.80. Thompson street, Point Southwest of Orthodox to Alresford, Mack Paving Co., Nicetown lane and C street, Philadelphia, $12,848.48. Springer, Musgrave to Point 39 feet Southwest end of present paving, Durabilt Paving Co., Philadelphia, $1,077.05. Country road improving: Lisser, Eighty-fourth, Eighty-fifth, Holstein, Tinicum, Crothers, Ninetieth and Eighty-sixth streets, Union Paving Co., Thirtieth and Locust streets, Philadelphia, $17,452.90. Repairs to bridges, American Fabricated Steel Co., 2442 Bodine street, Philadelphia, $1,656. Furnis hlimestone dust, E. J. Lavino, Bullitt Building, $1,747.50. Asphalt Paving Co. mixtures: Union Paving Co., Thirtieth and Locust streets, Philadelphia, $1,250. Furnish crushed stone, Twenty-fourth and Parkway, Philadelphia, $2,775.

Removal of Ashes, Philadelphia. Owners, Department of Public Works, Bureau of Street Cleaning, City Hall. Low bidders: Asbury Realty Co., 1211 Chestnut street, Philadelphia, $406,600; Edward Fay & Son, 2 South Mole street, Philadelphia, $414,000.

Penn Building Company, Builders, formerly of 2029 Stenton avenue, Philadelphia, have moved their offices to Southwest Corner Haines and Ardleigh streets, Philadelphia.

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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

Electric Work, Fernwood Station, Broad St. Subway, Phila., $135,379. Owner, Dept. of City Transit, 1211 Chestnut St., Phila. Furnish and installing of electric euipment. Contract awarded to W. V. Pangborne & Co., 1927 W. Montgomery Ave., Phila.

Laundry (add.), 241 W. Allegheny Ave., Phila., $10,000. Architect, private plans. Owner, Wm. B. Wilson, 4144 N. Broad St., Phila. Brick, 1 story addition, 15x100 and 50x65 feet. Contract awarded to Chas. S. Bannett, 1633 S. 59th St., Phila.

Garage (add.), 2013 N. Mascher St., Phila., Architect, private plans. Owners, Peter Hernig Dairies, 2013 N. Mascher St., Phila. Brick, 1 story, 34x70 feet, slag roof, cement floors. Contract awarded Farrell-Roth Const. Co., 123 S. 21st St.

Barn (alts.), Forty-second and Chestnut streets, Philadelphia. Architect, private plans. Owners, Philadelphia Rapid Transit Co., Eighth and Dauphin streets, Philadelphia. Bond, brick, hollow tile, concrete work, reinforced concrete, cut stone, electric work, gypsum roof, steam heat, oil burner, metal lath, plastering, carpentry and mil lwork, metal partitions and doors, structural steel, iron work, area gratings, safety treads, iron stairs, painting, roof ventilators, shoring, steel sash, tin-clad fire doors, steel stack, waterproofing, slag roof. Contract awarded H .E. Baton, 1713 Sansom street, Philadelphia.

Apartment Building, Northwest Corner Sixty-third and Jefferson streets, Philadelphia. Engineer, Morris Fruchtbaum, 6100 Spruce street, Philadelphia. Owner, name withheld. Brick, steel, limestone, terra cotta, 4 stories, 104x180 feet, slag roof, hardwood floors, steam heat, electric light, tile and marble work. Contract awarded to I. Dozor, 5649 Sansom street, Philadelphia. Work to start March 1st, when contractor will take sub-bids.

School, L and Luzerne streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut streets, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Contracts awarded: Plumbing, Edward F. Roberts, 2622 Columbia avenue, Philadelphia, $19,757. Electric, Mitchell & Co., 1337 McFerran street, Philadelphia, $14,400. Heating, Thompson Brothers, 520 Buttonwood street, Philadelphia, $45,-440. Ventilating, Mellon Co. ,4415 Ludlow street, Philadelphia, $1,900.

Sales and Service Building, 4718 North Broad street, Philadelphia. Architects, Thalheimer & Weitz, Wesley Building, Philadelphia. Owners, Logan Oakland Motor Co., T. Hendri, manager, on premises. Brick, limestone, reinforced concrete, steel, 3 stories and basement, 60x178 feet, slag roof, cement floors. Contract awarded William Linker Co., 735 Cherry street, Philadelphia.

Sub-Stations, No. 4 and No. 5, Louden and Carlisle, Cumberland and Park avenues. Owners, Department of City Transit, 1811 Chestnut street, Philadelphia. Contract awarded Curtis Grindrod Co., 10 South Eighteenth street, Philadelphia, No. 4, $156,655; No. 5, $138,333. Total, $343,157.

Residence (alts.), 1721 Spruce street, Philadelphia. Architect, private plans. Owner, S. Stern, Northeast Corner Fifteenth and Locust streets, Philadelphia. General alterations. Contract awarded to J. E. Spitz, Northeast Corner Fifteenth and Locust streets, Philadelphia.

Factory (add.), 4434 Penn street, Philadelphia, $5,500. Architect, private plans. Owners, Standard Tapestry Co., on premises. Brick, 2 stories add., 18x62 feet. Contract awarded to William F. Lotz, Frankford avenue and Oxford pike, Philadelphia.

Residence and Store (alts.), Southwest Corner Fifteenth and Fitzwater streets, $2,500. Architect, private plans. Owner, B. Oronowitz, 3112 Wharton street, Philadelphia. General alterations. Contract awarded to M. Cattes, 1220 North Forty-second street, Philadelphia.

Tank, North side Elmwood avenue, Sixty-ninth to Seventieth streets, Philadelphia, $4,700. Architect, private plans. Owners, General Electric Co., on premises. Steel. Contract awarded to Pittsburgh-Des Moines Steel Co., 50 Church street, New York.

Residences (alts.), 331 South Hicks street, Philadelphia, $3,900. Architect, private plans. Owner, H. A. Speiser, 515 Tasker street, Philadelphia. General alterations. Contract awarded to E. M. Canny, Sixty-first and Sansom streets, Philadelphia.

Residences (2), 817-19 Rhawn street, Philadelphia, $8,000 total. Architect, private plans. Owner, Warren Smith, 7959 Oxford street, Philadelphia. Brick, 2 stories, 16x36 feet, slag roof, pine floors, electric work. Contract awarded to Smith & Hallstrom, 7959 Oxford street, Philadelphia.

Residence and Store (add. and alts.), 3479 Bowman street, Philadelphia, $2,500. Architect, private plans. Owner, William Clayton, on premises. Brick, second story add., 18x22 feet, general alterations. Contract awarded to Gottlob Steinle, 19 Weikel street, Philadelphia.

Residence and Store (alts.), 2551 North Eleventh street, Philadelphia, $2,500. Architect, private plans. Owner, Louis Segal, 2551 North Eleventh street, Philadelphia. General alterations. Contract awarded to David Gold, 824 Fishers avenue, Philadelphia.

Bake Shop, 1118 Louden street, Philadelphia, $4,500. Architect, private plans. Own-

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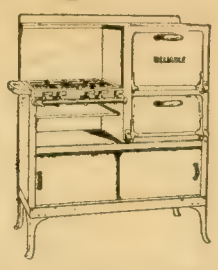
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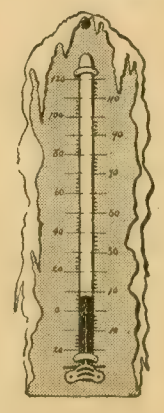
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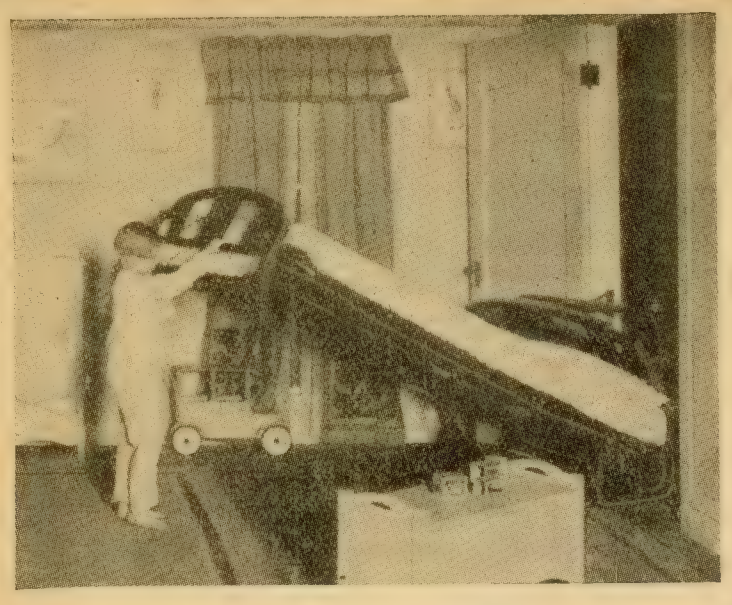
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er, M. Nicholson, 5149 North Hutchinson street, Philadelphia. Brick, 1 story, 24x40 feet, electric light, pine floors. Contract awarded to B. Manulkis, 1632 North Franklin street, Philadelphia.

Pennsylvania Construction News

Residence, Overbrook Hills, Pa. Architect, E. Allen Wilson, 1208 Chestnut St., Phila. Owner, name withheld. Frame, 3 stories, 24x 40 feet. Garage 1 story, 10x18 feet, shingle roof, hardwood floors, cement floors, central steam heat, electric light, metal lath, cement work, tile work. Plans completed.

Church, Queen and Springfield Sts., York, Pa. Architect, Geo. E. Merrell, care of American Baptist Home Missionary Committee, 23 E. 26th St., New York. Owners, First Baptist Church, C. E. Hodgson, Charman, 472 Atlantic Ave., York, Pa. Brick. Sketches in progress. Work contemplated.

Road Work, Pennsylvania. Owners, Penna. Dept. of Highways, W. H. Connell, Engineering Executive, Harrisburg, Pa. Owners taking bids due Jan. 7th at 10 A. M. McKean Co., Route 469, appl. 4349-4291-4374; Bradford, Foster and Keating Twps., 45,477 feet. One course reinforced concrete. Certified check, $4,000.

School, Horsham, Pa., Architects, Heacock & Hokanson, 1211 Chestnut St., Phila. Owner, Board of Education, Horsham, Pa. Revised plans in progress.

Garden Theatre, Stores and Offices, Frackville, Pa. Architect, J. R. Thompson, 34 South Seventeenth street, Philadelphia. Owner, Myer Paret, Frackville, Pa. Hollow tile, structural steel, 1 story, 45x70 feet, marble work, plate glass, copper bulks. New plans in progress.

Sunday School (alts.), Altoona, Pa. Architect, George E .Savage, Witherspoon Building, Philadelphia. Owners, First Presbyterian Church, J. C. Nugent, 1200 Seventeenth avenue, Altoona, Pa. Plans in progress. Ready for bids in a month.

Club House (alts. and add.), Haverford, Pa. Architects, Bailey & Bassett, 421 Chestnut street, Philadelphia. Owners, Merion Cricket Club, Allen Faul, secretary, Haverford, Pa. Plans in progress.

Bank (alts. and add.), Lansdowne, Pa. Architects, Heacock & Hokanson, 1211 Chestnut street, Philadelphia. Owners, Lansdowne National Bank, Lansdowne, C. W. Stubb, secretary. Stone and brick, 1 story and basement. Preliminary plans in progress.

Chapel, West Fairview, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owner, Right Rev. P. R. McDevitt, 111 State street, Harrisburg, Pa. Timber, 1 story and basement, 40x80 feet, shingle roof, pine floors, steam heat, electric light. Revised plans in progress.

Church, Muddy Creek, Pa. Architect, H. Mohn, Mohnton, Pa. Owners, Muddy Creek Union Church, Rev. A. M. Leibensberger, Terre Hill, Pa. Stone, 1 story. Too early for details.

Church (add.), Stoney Creek Mills, Pa. Architect, D. J. Young, 226 North Sixth street, Reading, Pa. Owners, Bethany Union Sunday School, Charles Erb, Mount Penn, Reading, Pa. Stone, 1 story, 50x73 feet, Johns Manville roof, cement and wood floors, electric light. Plans in progress.

School and Auditorium, Mahanoy Plane, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, Holy Rosary Church, Rev. P. J. Fleming, Mahanoy Plane, Pa. Steel, frame, 2 stories, 93x55 feet, composition roof, maple floors, steam heat, electric light. Plans in progress.

Church (add. and alts.), Newtown, Bucks County, Pa. Architect, G. C. Freeman, Liberty Bank Building, Reading, Pa. Owners, St. Andrew's Roman Catholic Church, Rev. J. F. Brady, Newtown, Pa. Stone, 2 stories, 40x30 feet, slate roof, composition floors, heating extension, electric light, general alterations. Plans in progress.

High School, Newport, Pa. Architect, B. E. Starr, 9 North Second street, Harrisburg, Pa. Owners, School District, Borough of Newport, Newport, Pa. Brick, steel, 2 stories, 157x96 feet, 38x60 feet, composition roof, maple floors, hollow tile, safety treads, roof ventilators, waterproofing, cut stone, ornamental iron, iron stairs, bond, metal skylights, steel sash, tile work, metal lath (heating, plumbing and electric separate). Owners taking bids due January 13th.

Rectory, Spring street and Center avenue, Reading, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. Margaret's Roman Catholic Church, Rev. William J. McShain, 1012 North Fifth street, Reading, Pa. Brick, steel, 1 stories, 68x57 feet, built-up roof, concrete and maple floors, cast stone, ornamental iron, tile and marble, steam heat, electric light. Owners taking bids due December 30th at 6 P. M.

Residences (2), Stockton road, Meadowbrook, Pa. Architects, Folsom, Stanton & Graham, 10 South Eighteenth street, Philadelphia. Owner, name withheld. Architects taking bids due December 23rd.

Church and School, Allentown, Pa. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Catherine of Sienna, Rev. C. C. Thalen, 206 North Eighteenth street, Allentown, Pa. Brick, 2 stories, 60x100 feet. Plans completed. Architects ready for bids after January 1st.

Residence and Garage, Haverford, Pa., $40,000. Architects, Wallace and Warner, Franklin Trust Building, Philadelphia. Owner, William F. Harrity, Jr., 6377 Woodbine avenue, Philadelphia. Stone, hollow tile, 2½ stories, irregular in size, hot water heat, electric light, tile and marble work, shingle roof, hardwood floors. Architects taking sub-bids.

Twin Residences (16) and Garages, Roland Park, Cheltenham Township, Pa. Architect, R. R. Neely, 2301 Spruce street, Philadelphia. Owner, Louis R. Rubin, City Center Building, Philadelphia. Brick, cement block, stone foundations, 2½ stories, 16x40 feet, variegated slate and black roof, hardwood floors, hot water heat, electric light, tile work, garages, brick, 1 story, 10x19 feet, slag roof, cement floors. Owner taking sub-bids.

Nurses' Home, Lewistown, Pa. Architects, Witman & Royer, 47 East Market street, York, Pa. Owners, Lewistown Hospital, N. S. Boyer, Lewistown, Pa. Brick, steel, 3 stories, 65x33 feet, slate roof, pine floors, tile work, electric light. Owners taking bids.

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Equipment, Norristown, Pa. Engineer, W. W. Hubbert, Penfield Building, Philadelphia. Owners, Norristown State Hospital, R. L. Campman, Norristown, Pa. Owners taking bids due December 30th for steam fitting, pumps and connections.

Seventh Street Bridge, No. 186, over Chester Creek, Chester, Pa. Engineer, George Wright, Media, Pa. Owners, County Commissioners, G. T. Wades, Media, Pa. Owners taking bids due December 28th. Repairs and painting of bridge. Certified check, $500. Deposit, $2.50, which will be refunded to bona fide bidders.

Grade School No. 8, Scranton, Pa. Architect, A. P. Coon, Union Bank Building, Scranton, Pa. Owners, Scranton Board of School Control, John D. Hughes, secretary, 425 Washington avenue, Scranton, Pa. Lowest bidders: King Lumber Co., Charlottesville, Va., $105,000; Alimo Brothers, Pittston, Pa., $118,495. Electric, Armbruster Co., Scranton, Pa., $5,598. Plumbing, H. M. Gardner, Scranton, Pa., $5,333. Heating and ventilating, P. T. & M. T. Howley, Scranton, Pa., $27,000.

Robert Morris Grade School No. 27, Scranton, Pa. Architect, A. P. Coon, Union Bank Building, Scranton, Pa. Owners, Scranton Board of School Control, John D. Hughes, secretary, 425 Washington avenue, Scranton, Pa. Lowest bidders: John J. Gibbons, Avoca, Pa., $60,172; Alimo Brothers, Pittston, Pa., $72,000. Electric, Eiden Electrical Co. ,Scranton, Pa., $6,407. Plumbing, H. M. Gardner, Scranton, Pa., $4,126. Heating and ventilating, P. F. & M. T. Howley, Scranton, Pa., $30,450.

School Building, Cheyney, Pa. Architects, Morris & Erskine, 1716 Cherry street, Philadelphia. Owners, Cheyney Training School, Cheyney, Pa. Low bidders: Hood & Gross, 1535 Chestnut street, Philadelphia, $23,487; N. W. Bryan, 10 South Eighteenth street, Philadelphia, $23,700.

Pennsylvania Contracts Awarded

Residence, No. 1, Rosemont, Pa. Architects, Seeburger & Rabenold, 1524 Chestnut St., Phila. Owner, Thornbrook Development Co., Rosemont, Pa. Stone, cut stone, limestone, 2½ stories and basement, 83x43, vermont slate roof, cement, oak and pine floors, painting and glazing, hot water heat, electric light, metal lath, tile work, bond, ornamental iron work, flagstone. Contract awarded J. Howard Roberts, Landsdowne, Pa.

Gymnasium Building, Indiana, Pa. Architects, Lawrie & Green, 116 Locust street, Harrisburg, Pa. Owners, Indiana State Normal School, care of William Keith, Indiana, Pa. Brick, reinforced concrete, cut stone, limestone, steel, 2 stories and basement, 168x68 feet (plumbing, heating, electric separate), built-up and black slate roof, cement and maple floors, hollow tile, waterproofing, ornamental iron ,iron stairs, bond, rolled steel sash and skylights. Contract awarded to Columbia Const. Co., Altoona, Pa. Plumbing to E. R. Lumsden, Indiana, Pa. Heating to William M. Clark & Co., New Castle, Pa. Electric to John W. Spangle & Son, Swissvale, Pa.

J. Horace Landis Public and High School, Schwenkville, Pa, Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, School District, Lower Frederick Township, W .S. Brey, Schwenkville, Pa. Fireproof, 1 story, 17 class rooms, gymnasium and auditorium, slag roof, composition floors, hollow tile, safety treads, roof ventilators. Contract awarded to J. S. Foose, Harrisburg, Pa., $72,897.43. Plumbing to M. H. Baker, 1330 Derry street, Harrisburg, $4,960. Heating to J. M. O'Donnell, Quakertown, Pa., $15,563. Electric to D. L. Bradley, Norristown, Pa., $3,727.84.

School, Swarthmore, Pa. Architects, Ritter & Shay, Packard Building, Philadelphia. Owners, School District of Delaware County, L. A. Perry, Swarthmore, Pa. Contract awarded N. W. Bryan, 10 South Eighteenth street, Philadelphia, $115,450. Electric, Merit Elec. Co., 630 Race street, Philadelphia, $5,500. Plumbing, Bulman Brothers, Fifth and Cumberland streets, Philadelphia, $5,353. Heating, American Heating & Ventilating Co., 1505 Race street, Philadelphia, $24,679.

Hotel, Stores and Offices, West Ninth street, Chester, Pa., $1,200,000. Architect, private plans. Owner, care of builders. Steel, concrete, limestone, terra cotta, 8 stories and basement, 114x112 feet, tile roof, electric light. Plans about completed. Will be ready for sub. bids in ten days. Contract awarded Ell Dee Const. Co., L. Davidson, 519 Market street, Chester, and Franklin Trust Building, Philadelphia.

Stores and Lodge Rooms, Shenandoah, Pa. Architect, J .B. Thompson, 34 South Seventeenth street, Philadelphia, Owners, Loyal Order of Moose, No. 1179, Shenandoah, Pa. Frame, stucco, 3 stories, hot water heat, electric light, tile and marble work, plate glass, metal ceilings, structural steel, copper bulks. Contract awarded Francis McGraw, Shenandoah, Pa.

Hospital (add. and alts.), Wernersville, Pa. Architect, George H. Boyer, Lebanon, Pa. Owners, Board of Directors, Dr. S. Hill, superintendent, Wernersville, Pa. Brick, hollow metal doors and partitions, cut stone, waterproofing. Contract awarded to Adam Spatz, Wernersville, Pa.

Church (rebuilding), Sinking Springs, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. John's Reformed Church, G. R. Reber, secretary, 123 Woodrow avenue, Sinking Springs, Pa. Brick, 1 story, 46x65 feet, slate roof, pine floors, electric light, metal lath (heating reserved). Contract awarded to C. H. Schlegel, 528 Washington street, Reading, Pa.

Store (add, and alts.), 1140 Perkiomen avenue, Reading, Pa. Architect, H. R. Heckman, Baer Building, Reading, Pa. Owner, Louis Goldblatt, 1001 Penn street, Reading, Pa. Cinder block, 1 story, 12x25 feet, composition roof, yellow pine floors, heating extension, electric work, tile and marble. Contract awarded to Louis Heilbron ,19 South Tenth street, Reading, Pa.

Building, Doylestown, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Derk Mfg. Co., Doylestown, Pa. Contract on heating awarded to J. P. Smith, 138 North Seventh street, Philadelphia, Pa.

New Jersey Construction News

Department Store (alts. and adds.), 129-33 E. Front St., Plainfield, N. J. Architect, Sol. Kaplan, 10 S. 18th St., Phila. Owner, name withheld. Building block, 1 story 40x40 feet, general alterations to present building. Plans in progress.

Ice Plant, Ocean City, N. J. Architect, private plans. Owners, American Ice Co., City Center Bldg., Phila. Brick, steel, 1 story, 35x100 feet, 30x50 feet, slag roof, cement floors, ornamental iron work. Owner taking bids due Dec. 30th.

Post Office, Millville, N. J., $90,000. Architect, James A. Wetmore, Treasury Department, Washington, D. C. Owners, United States Government, Treasury Department, Washington, D. C. Brick and stone. Plans in progress.

Hotel and Restaurant Building, North Atlantic City, N. J. Architects, George B. Post & Sons, 101 Park avenue, New York. Owners, Childs Co., 200 Fifth avenue, New York. Brick, limestone, 18 stories, 250x110 feet. Plans in progress. Ready for bids in about four weeks.

Store (alts.), Academy and Broad streets, Trenton, N. J. Architects, W .W. Slack &



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Son, Trenton Trust Building, Trenton, N. J. Owner, Manuel New, Wilmeta Apartments, Trenton, N. J. Vapor heat, elevators, plumbing, plate glass, copper work. Plans in progress.

Lodge Building, Pearl street and Warren street, Bridgeton, N. J. Architect, Thomas Edward Ash, 1700 Walnut street, Philadelphia. Owners, Aerie No. 1579, F. O. O. E., G. A. McKeen, Bridgeton, N. J. Architect taking bids due December 29th.

Residence, Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, K. G. Dresdner, Cadwalader Apartments, Trenton, N. J. Hollow tile, stucco, 2½ stories, 20x70 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Architects taking bids due December 23rd.

Auto Sales Building, Southwest side Haddon avenue, Northwest Copewood street, Camden, N. J. Architect, C. E. Wunder, 1520 Locust street, Philadelphia. Owner, Paul M. Evans ,Camden, N. J. Brick, 1 story and basement, slag roof, cement floors. Architect taking bids due December 29th.

Amusement Park, Pier and Convention Hall, Ocean avenue, Sunset avenue, Asbury Park, N. J. Associate architects, Warren and Wetmore, Ernest A. Arend, A. F. Cottrell and Kenneth MacM. Cowner, 16 East Forty-seventh street, New York. Owners, Board of Commissioners, care of A. Grace King, 710 Bangs avenue, Asbury Park, N. J. Deposit, $150. Refund, $50. Certified check, 2 per cent. Owners taking bids due January 11th, 10 A. M.

Bridge, across South River, near May's Landing, at M. P. 39.8, State Highway Route 14, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Concrete, structural steel, foundation excavation, 42 feet, roadway width 40 feet. Owners taking bids due December 27th at noon. Certified check, 10 per cent. Deposit, $10.

Road Work, New Jersey. Owners, State Highway Department, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J.

Route 7, Shark River Station Grade Crossing, Elimination Approaches, Route 7, Monmouth County. Excavation, borrow, cinder surface, gravel surface.

Route 14, Sec. 11A-12A-13A-16 and 17, Middletown Bridge to Estellville, Atlantic and Cape Ma yCounties. Excavation, double line reinforced concrete pavement, gravel surface. Owners taking bids due December 27th at noon. Deposit, $10. Certified check, 10 per cent.

Bridges (2), New Jersey (across North and South Channels of Shark River between Belmar and Avon at M. P. 75.8, State Highway Route 4). Owners, State Highway, Trenton, N. J. North Channel Bridge: 3 spans, 73 feet each, concrete, plate girders supported on concrete piers and abutments founded on wooden piles. One (1) 78-foot trunnion bascule span to be constructed at present time. Concrete excavation, piles, structural steel, reinforced concrete. Owners taking bids due December 27th at noon. Certified check, 10 per cent. Deposit, $10.

New Jersey Contracts Awarded

Residence, 382 Boyd St., Camden, N. J., $,8000. Architect, private plans. Owner, U. G. Peters, 2304 Federal St., Camden, N. J. Block, stucco, 1½ stories, 24x42 feet, asbestos shingle roof. hardwood and pine floors, steam heat, electric light. Contract awarded to Frank W. Shisler, 461 N. 38th St., Camden, N. J.

New Front, 307 Market St., Camden, N. J., $2,600. Architect, private plans. Owners, Cramer Realty Co., on premises. Brick, 2 stories. Contract awarded to John C. Gibson, 611 Bailey St., Camden, N. J.

Road Work, New Jersey. Owners, State Highway Commission, A. Lee Grover, secretary, Broad Street Bank Building, Trenton, N. J. Plate girder bridge over Passaic River on State Highway Route No. 12, Essex and Passaic Counties. Contract awarded to Northern Const. Co., 423 Amherst street, East Orange, N. J., $116,285.71. Storm water drain on Route 1 at Cranbury, Middlesex County. Contract awarded to Celentena & Wenland, Trenton, N. J., $30,764.80.

Miscellaneous Construction News

Parish House, Claymont, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, Episcopal Church of the Ascension, Rev. Charles A. Rantz, Claymont, Del. Stone, 2 stories, 30x100 feet, shingle roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Parish House, Claymont, Del. Architect, R. C. Tindall, 914 Orange street, Wilmington, Del. Owners, Methodist Episcopal Church, Rev. Hugh B. Kelso, Claymont, Del. Stone, 2½ stories, 40x70 feet, slate roof, hardwood floors, steam heat, electric light, tile work. Plans in progress.

Laundry, Second and Washington streets, Wilmington, Del. Architect, C .R. Hope, DuPont Building, Wilmington, Del. Owners, Associated Laundry, care of architect. Steel, concrete, brick, 4 stories and basement, 65x80 feet, Johns Manville roof, concrete floors, elevators, safety treads, waterproofing, dampproofing, iron stairs, fire doors, skylights, steel sash, metal lath, tile work, electric work. Architect taking revised bids.

High School, Wilmington, Del., $660,000. Architects, Guilbert & Betelle, Newark, Del. Owners, Delaware School Auxiliary Association ,Mr. Taylor, DuPont Building, Wilmington, Del. Fireproof, 2 stories, 250x150 feet, slag roof, maple floors, hollow tile, safety treads, roof ventilators, iron stairs, skylights, steel sash, eerrazzo work, tile work, metal lath (heating, plumbing and electric separate). Owners will build.

Community Garage (20 garages), Wilmington, Del., $4,000. Architect, private plans. Owner, S. Tobasso, Pennyhill, Del. Cinder block, 1 story, 96x20 feet, slag roof, concrete floors. Permit issued.

Bungalow, Arden, Del. Architects, Durham Brothers, 34 South Seventeenth street, Philadelphia. Owner, Mrs. Albert T. Hanby, 4620 Osage avenue, Philadelphia. Stone, 1 story, 30x50 feet, vulcanite roof, cement floors, electric light. Plans completed. Owner will take bids. (Note correct architects.)

Miscellaneous Contracts Awarded

Convent and Academy Building, Mt. St. Mary's on the Hudson, N. Y. Architect, Emil G. Perrot, 1211 Arch street, Philadelphia. Owners, Sisters of the Order of St. Dominic, on premises. Brick, reinforced concrete, cut stone, limestone, steel, 5 stories and basement, 237x50 feet, wing 116x47 feet, wing 78x44 feet, built-up and variegated slate roof, cement, pine and maple floors, hollow tile, elevators, roof ventilators, metal window guards, metal weather strip, dampproofing, membrane waterproofing, metal lath, steam heat, electric light, tile, marble and terrazzo work, rolled steel and hollow metal sash, monitor skylights, tin-clad and kalamein doors, floor hardener, ornamental iron work, brass pipe, cast stone, steel casements, hollow metal partitions, Austial window hardware, caulking, mastic floors, dumb waiters, oil burning. Contract awarded F. A. O'Hare Co., 270 Madison avenue, New York.

Office (add.), Naugatuck, Conn. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Harris Whittemore, Naugatuck, Conn. Brick, stone. Contract awarded Tidewater Building Co., 16 East Thirty-third street, New York.

Proposal

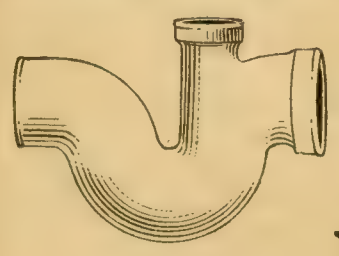
ADVERTISEMENT FOR THE CONSTRUCTION OF A HIGH SCHOOL BUILDING AND ALTERATIONS TO THE PRESENT SCHOOL BUILDING FOR THE BOARD OF EDUCATION, MERCHANTVILLE, N. J.

Public notice is hereby given that sealed proposals for furnishing labor and materials to construct and equip, ready for furniture, a High School building; adjacent to and connected with the present Public School Building, and to make alterations in present building, will be received by the Chairman of the Building Committee of the Board of Education of the Borough of Merchantville at the School Building on Tuesday, December 28th, 1926, at 8 o'clock P. M., at which time all proposals submitted will be publicly opened and read.

The High School Building, includes the School, and Auditorium building. It is to be constructed with concrete and brick walls with concrete floors supported on a structural steel frame with fireproof construction. The building contains approximately 520,000 cubic feet. The alterations to the present building consist of changes in basement and first floor, as shown on plans and as specified.

Said proposals must be on blank forms provided by the Architect for that purpose and must be enclosed in sealed envelopes endorsed "Proposals for Merchantville High School' and must state the branch of work for which the proposal is submitted.

No bid will be considered unless accompanied by a certified check to the amount of five (5%) percent of the bid, binding the bidder to execute a contract if awarded to him, and also a statement from a surety company that it will furnish the contractor with a bond for the full amount of his contract,



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binding the bidder to execute a contract if awarded to him.

The terms of the proposal with surety required are fixed by the specifications, to which reference may be had. The right is reserved to accept any or all bids submitted, also to waive any informality in the same.

Copies of the drawings and specifications will be on file at the office of the Architect, Mr. Arnold H. Moses, Temple Bldg., Camden, N. J. A limited number of copies of said drawings and specifications will be loaned to prospective bidders, for the purpose of estimating on deposit of a certified check to the Architect's order in the amount of $25.00. If plans and specifications are returned to the Architect, within a reasonable time, and an estimate submitted, the check will be returned in full. Should plans and specifications not be returned nor an estimate submitted the deposit may be forfeited.

E. J. Frey,
Chairman, Bldg., Committee,
ARNOLD H. MOSES,
Architect.

Dated November 30th, 1926.

(Continued from page 808)

and recall, after which the decision may be set aside and reversed by the architect.

PAYMENTS: Payments, if any, shall be made only on the architect's certificate. Architect's certificates shall not be considered negotiable nor are they legal tender. When once issued, the architect assumes no responsibility for their further usefulness.

Partial payments shall be made, as the work progresses, in the amount of 85% of the value of the work done, as judged by the architects.

In no cases shall the judgment of the architect cover more than enough to cover the pay roll every Saturday night. The material man must take the necessary chances.

The final payment (if any) shall be made only when everybody shall be satisfied (but the contractor.)

Any evidence of satisfaction on the part of the contractor shall be considered a just cause for withholding final payment.

FINALLY: The contractor shall accept and hereby does accept the conditions hereinbefore appearing for himself, his ancestors, and pregenitors, his family, his heirs, executors, his ox, and his ass and any stranger that is within his gates.

The national conference on the real estate mortgage bond business held under the auspices of the American Construction Council, at 120 Broadway, New York City, November 30th, with Hon. Franklin D. Roosevelt, President of the Council, presiding, and an attendance of over one hundred representative leaders of all component parts of the building industry as well as by state authorities, took action of far-reaching interest to the construction industry and the public.

The conference by resolution authorized a complete survey of the first real estate mortgage bond industry by a special committee of the American Construction Council headed by Mr. Roosevelt with instructions also to make recommendations and report back to a later meeting of the entire body to be called by the Council as soon as practicable, probably early in January, this committee to work in full co-operation with the securities commissioners of the various states. The other members of the committee, which has power to add to its members as the survey progresses are: Judge A. F. Murphy, President of the Federal Bond & Mortgage Co., Detroit; W. J. Moore, President of the American Bond & Mortgage Co., New York; A. Bryan Pitts, of F.H. Smith & Co., Wash., D. C.; S. W. Straus, President of S. W. Straus & Co., New York and Chicago; Edgar N. Greenebaum, Greenebaum Sons Investment Co., Chicago; J. M. Ulmer, of the Ohio Mortgage Bankers' Association, Cleveland; Edward Sonnenschein, of the Chicago Mortgage Bankers' Association, Chicago.

The committee immediately organized and started its work and will get in touch with all interested elements in its survey.

The resolution as passed by the conference authorizing this action was as follows:

> "*Resolved*, That the American Construction Council appoint a committee of seven representatives of the first mortgage real estate bond houses, of which committee Franklin Roosevelt, President of the American Construction Council, shall be the Chairman, this committee to survey the general condition of the real estate bond business and to co-operate in such survey with the committee of the Securities Commissioners of the several states, with power to add to its membership and to appoint sub-committees, and to report at a subsequent meeting of this body at the call of the chair."

This meeting was called following specific suggestions before the Council's annual convention in Cleveland on November 9th and while it was the sense of the conference that the real estate mortgage bond business is as sound as any other large industry in the country, it was felt such a survey should be made to maintain confidence on the part of the public in the industry and to further develop uniformity of sound practice in the industry itself.

Methods under which the record-breaking construction activities of 1926, involving expenditure of seven and one-half billion dollars, were carried on are soon to be reviewed by leading builders. This action will take place at a conference to be held at Asheville, N. C., January 24-27, under the auspices of the Associated General Contractors of America.

Prominent among the subjects to be discussed, announcement of the program for the meeting discloses, will be: surety bonding practices; awards of contracts to irresponsible or incapable bidders; lien law provisions; methods of financing construction operations; economics of highway construction; use of standard contracts; construction of public projects under the "day labor" system, and prevention of accidents.

"The intensive building activities of the year just concluded have hidden from view the effects of many conditions which would be more obvious in a less hectic period," Gen. R. C. Marshall, Jr., head of the conference's sponsoring group, declared. "While no immediate let-down of the furious pace of construction activities is in prospect, the return to a more normal volume of operations is certain to come.

"During the past six years, the construction industry has been busily engaged in meeting the demand for new buildings that was pent up during the war. Completion of the task of satisfying this demand will return the industry to the fulfillment of current needs as they arise.

"It is for the sake of preparedness against the time when every possible efficiency and economy will be increasingly vital to the building public that the forthcoming meeting is being called."

Leaders of the construction industry whose operations cover virtually every state and many foreign countries have been invited to attend the meeting.

A NEW USE FOR LIME

Hydrated lime as a filler in asphalt mixtures produces higher stability values

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than equivalent amounts of the more commonly used materials, investigations conducted over the last three years by Prevost Hubbard and F. C. Field, of the Asphalt Association, disclose. These investigations were instituted because a greater resistance to displacement is necessary in order that bituminous mixtures may successfully resist the stresses to which they are subjected by modern traffic.

The investigators went thoroughly into their work covering the entire field. They developed a highly satisfactory method of testing for stability asphalt briquettes, which might either be cored from pavements or prepared in the laboratory. Supplementary to their report they made the following statement:

"Recent investigations of methods of increasing and more closely controlling resistance to displacement of asphalt pavements under modern traffic have emphasized the very important stabilizing effect produced by mineral fillers as a constituent of paving mixtures.

"It has long been realized among paving engineers that fineness is a necessary characteristic of good fillers, but the effect of variations in fineness has never been thoroughly understood. Moreover, only a very limited number of types of finely divided substances have been used so far in paving practice.

"Among the little used products which are widely available in large quantities, hydrated lime gives promise of being particularly well adapted for use as a filler both on account of its extreme fineness and surface texture.

"It is believed that the research data secured relative to this material, coupled with practical results obtained where it has been used in actual construction, merits its favorable consideration by paving engineers in future work."

Summarized, the conclusions reached by the investigators based on their previous work and that presented in a bulletin by the National Lime Association entitled "The Value of Hydrated Lime as a Filler in Asphalt Paving Mixtures," are:

1. Hydrated lime is a more efficient stabilizing agent in asphalt paving mixtures than is the average limestone dust filler when used in the customary percentage of the total mix.

2. No difference in the stabilizing value of different limes can be attributed to differences in chemical composition, i. e., whether the lime is high calcium or high magnesium.

3. The maximum stabilizing and void reducing effect of hydrated lime in paving mixtures containing a well graded sand appear to be obtained by the use of approximately 15 per cent of lime.

4. In sheet asphalt paving mixtures with well graded sand it appears that about 13 per cent. by weight of hydrated lime is equivalent to 20 per cent. by weight of average limestone dust, and about 8 per cent. of lime is equivalent to 15 per cent. of limestone dust.

5. Hydrated lime appears to be better adapted for use with a relatively soft asphalt cement than is limestone dust, and when so used indications point to the production of mixtures of high stability at 140 degrees F. which are less likely to crack in cold weather.

6. Hydrated lime is an especially desirable filler for use with uniformly fine sand and its superiority to limestone dust for such use may make available for sheet asphalt construction, fine sands which are at present eliminated by specifications.

ECONOMICS APPLIED TO THE CONSTRUCTION INDUSTRY

By G. SZMAK, *Treasurer*
American Institute of Quantity Surveyors

While it is true that there is nothing new under the sun, yet during the march of human generations everything is learned, forgotten and re-learned. It is the duty of everyone to investigate, teach and learn the things affecting human welfare in order that the man of today can live as complete a life as the man of yesterday or that of tomorrow, even though the ways and means may be different. All matter and principles forever remain the same. One of the most important conditions having effect upon human welfare is shelter against the elements. The work to provide this shelter is invested in what is probably the greatest single industry of men and women, known as the Construction Industry. This industry is composed of the CONSTRUCTION DESIGNER, SURVEYOR and the CONSTRUCTOR and only when all three branches are intelligently utilized can the greatest efficiency, economy and durability result. The services and scope of these three absolutely essential branches of the Construction Industry are the subject in the continuation of this article, for the enlightenment and guidance of the prospective investor, purchaser or owner of Construction Work.

The Construction Designer

Whenever we contemplate to erect a structure of any sort, whether it is a large commercial building, a factory or a residence, if we act along the lines of proven efficiency the first thing we do is to secure the services of a competent Construction Designer, more generally known as the Architect. We have learned by example manifested through our own occupations that the man engaged in any particular calling is more fitted to be entrusted to do special work than if we were to do the work ourselves unaware of the principles of the work involved. The work of the Architect is to design artistically, economically and substantially, through a wise selection of materials and labor to be incorporated in his design, in such ratio as each characteristic may be required by the particular problem in hand. An Architect having fulfilled these requirements has done well his work. To expect him to do more would be to ask things beyond the scope of his profession. His work does not include the science of measuring and tabulating the quality and quantity of materials and labor required nor the efficient practical erection of a structure which are within the province of the Construction Surveyor and Builder.

The Construction Surveyor

As we study the causes of high cost in materials and production we realize more and more that to erect the designed structure economically it is necessary to enlist the aid of and know something of Economics.

"ECONOMICS IS THE SCIENCE OF CONSERVING ENERGY APPLIED TO TRANSFUSION, TRANSMUTATION AND TRANSPORTATION OF PHYSICAL AND SPIRITUAL MATTER."

The first essential principle of engineering is knowledge in the science of *measuring and tabulating the intensity and resistance of energy included and the space occupied by physical and spiritual matter;* thereby determining the exact extent it shall be necessary to apply or conserve energy in the process of transfusion, transmutation and transportation of the matter involved.

The branch of engineering which deals with the *intensity of energy—quality and space occupied—quantity of matter used in the erection of architectural and engineering structures is known as Construction Surveying*—sometimes called Quantity Surveying among the profession and some countries where it is practiced under such title. This branch of engineering is fast gaining in importance due to its high economic value in conserving energy—elminating waste matter.

"CONSTRUCTION SURVEYING IS THE SCIENCE OF MEASUREMENT AND TABULATION APPLIED TO THE PHYSICAL MEMBERS OF A STRUCTURE EXPRESSED IN UNIFORM UNITS OF MEASUREMENT WITH AN ANALYSIS AND DETAILED ACCOUNTING OF ITS REQUISITE *QUALITY* AND *QUANTITY* OF MATERIAL AND LABOR APPLICATIONS."

This is the only positive method of eliminating waste matter and thereby obtaining the greatest economic result or value compatible with the desired Quality, Quan-

tity and Price to be exchanged under the laws of Fair Competition. Persons engaged in the Construction Surveying profession are known as Construction and Building Surveyors and often-times as Quantity Surveyors, the former titles are more specific than the latter one and are therefore more generally recognized. The duties of the Construction Surveyor are well indicated by his title and the purpose of his profession is purely one of economics, i. e., the elimination of waste matter in the process of constructing architectural and engineering structures. It is not within the scope of his profession to design or erect a structure, this work is handled efficiently by the Architect and Constructor respectively. An experienced Surveyor can furnish information of great economic value to the Architect or his client in the efficient selection of materials and labor because he not only keeps posted on the relative cost of materials and labor but also has exact knowledge of what method in design of any given material will prove most economical to construct deducted from his past experience and analysis of the amount of material and labor required for any particular of various designs. Such information can be had before the design or plans and specifications are even started, although, it is most often through neglect determined after even the construction work has been completed and is too late for changes. Construction Surveys can be used on Lump Sum, Cost Plus Percentage, Unit Price or any other form of contract. The survey will in any case perform its economic function. The cost of designing structures is usually from 3 to 10 per cent. of its physical value and the fee for Construction Surveying is about 25 per cent. of the cost of designing. The amount paid to the Surveyor is saved several times over by the Survey through the elimination of waste. The Surveyor's fee may be paid direct by the Owner, incorporated within the fees of the Architect or may be specified to be included within the contract of the successful Constructor. The Surveyor may be employed direct by the Owner or his representative, the Architect or Designer. The process of having a Constructor or Quantity Survey prepared is simply to secure the services of a Surveyor upon the completion of the plans and specifications, prior to securing bids from the Constructors or Builders, and when ready it is furnished to the bidders along with the plans and specifications giving them an absolutely definite instrument of purchase; a complete plan with specific instructions and a survey expressing full intentions of purchase in structural dimensions, physical members in detail showing sizes, types, quality and quantity of materials and workmanship required to produce the desired structure.

Construction, Building or Quantity Surveys are now available throughout the United States and also in a number of foreign countries.

The Constructor

The third essential service in the process of erecting a structure is pretty generally known, that of employing a Constructor or Builder; the right selection of which is not so easy as it might seem at first. Whenever the purchaser does not provide the bidders with a positive Survey of his requirements they are compelled through the law of self-preservation to prepare their own surveys, in order to enable them to arrive at a basis for estimating the cost of the work involved. These surveys are prepared with more or less accuracy depending on the competency of the bidder and psychological effect produced upon him by his own intensity of desire to win, or fear of losing the work through supposedly unscrupulous methods of the other bidders. To prepare even a single bid for a structure it is necessary to make at least twenty-five to a hundred or more surveys for the various branches of work entering into the structure. When the number of bidders are ten or more and very seldom less than six it can readily be seen that there is a tremendous amount of duplicated effort involved in preparing surveys under a system where each bidder has to provide his own survey. This duplication of effort is not only very wasteful but it is absolutely unnecessary and is as ridiculous as if the purchaser requested ten or more architects to prepare plans and specifications for a structure and then the purchaser were to decide upon one plan which he preferred above the others and in turn were to furnish this plan to ten builders who would likewise erect ten structures from which the owner would select the one that he liked best and only made payment for one plan, specification and structure. Although the buyer apparently would be only paying for one plan, specifications and structure, all the eventual buyers would positively have to shoulder the expense created on the nine other plans, specifications and structures prepared for the first buyer, due to his inefficient mode of purchasing. This mistaken mode of purchase is in fact actually practiced by every buyer of Constrution Work, whenever they do not provide the bidder with a Construction Survey—a definite instrument of purchase. The selection of the Constructor or Builder without the use of a Construction Survey is positive gamble at best, inasmuch as all Fair Competition must be based upon three factors—Quality, Quantity and Price. The purchaser who has equipped himself with a definite instrument of purchase and has thereby positive knowledge of his requirements not only enables himself to purchase at a Fair Price but actually assists the Constructor or Builder to compete under the laws of Fair Competition, wherein he will gladly give a fair price on the requisite Quality and Quantity of materials and workmanship planned and specified without risk or fear of losing the Contract. Through the use of Construction Surveys all competitors are obliged to base their bids upon the same factors having control over Price—Quality and Quantity, which are otherwise left unknown to the Buyer. The work of the Constructor is not to design or survey a structure but to construct accurately and substantially. Some of the qualifications that are helpful in making an efficient selection of a Constructor or Builder are as follows:

1. Agreeability to conduct his business under sound and open methods in dealing with his clientele.

2. Knowledge of his personal integrity or that of the organizations with which he is associated.

3. Positive knowledge of his competency to correctly execute physically the design of the Architect, i. e., his ability judged by past performance.

These same recommendations are applicable also in the proper selection of the Construction Designer and the Construction Surveyor.

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Cast Stone has been used on the finest Churches, Banks, Schools, Office Buildings and every kind of building through out the country. It is not a local material but a natural product, and is now one of the leading industries of the building trades. Unlimited numbers of the best buildings in every section could be named where Cast Stone has been used; noteworthy examples being the New Stadium in Chicago and the new 12-story building for the Atlantic Refining Co. in Philadelphia, Pa.

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Sterling Products Co. .....831 S. 49th St., Phila.

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Vol. XLI, No. 52
December 29, 1926

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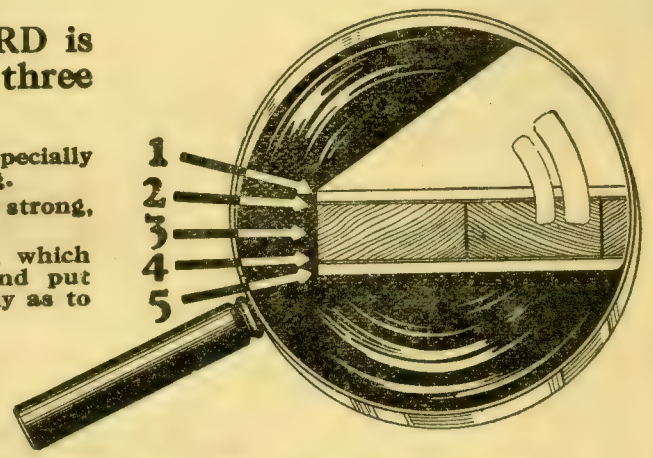
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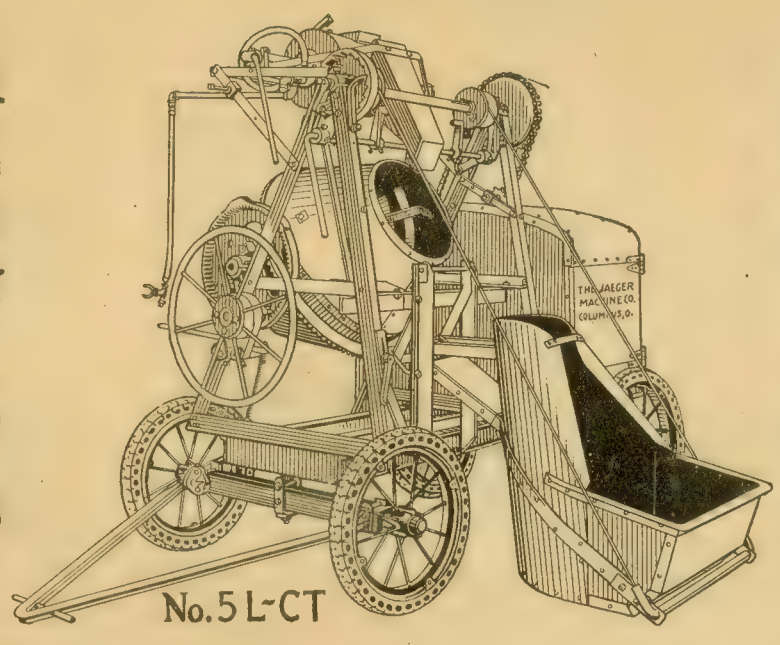
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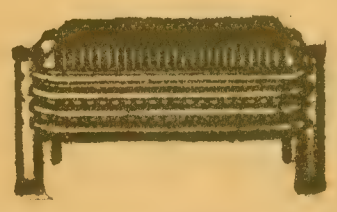
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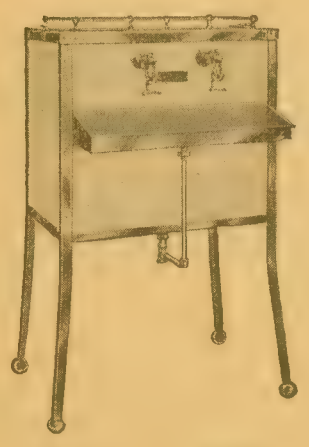
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As The Editor Sees It

DESTROYING PROSPERITY

By CHARLES JOHNSON POST

American Association for Scientific Taxation, Room 910, 15 Park Row, New York City

It may seem a far cry from the kind of business readers which this publication represents to farming. Whether farming is prosperous, or not, to farm taxes—or for that matter other taxes—may seem to have but little to do except with certain definite kinds of industry and manufacturing. In some peculiar cases this may be true.

But, when one considers the fact that, while there are only some 6,000,000 farmers in the country yet, when you consider their families of farmers and those dependant upon farm trade, there is a group of farm purchasing power that totals some 40,000,000 people. Rather large single group, is it not?

Is it not entirely apparent that all men of affairs simply as prudent, commonsense business men, must regard the farm situation and farm tax problems with serious attention.

For the farmer and his purchasing power are being taxed to his own death. Partly by himself and his own indifference to and ignorance of scientific taxation principles; but largely because the influential business men and business leaders and manufacturers are quite as indifferent to the principles and advocacy of scientific taxation as is the farmer.

Let me show you a graphic tabulation of the prosperity destroying load of unscientific taxation that the farmer, and all other business, too, are carrying. Look at this:

Percentage of Net Profits Paid Out in Taxes: Agriculture and Related Industries, State Taxes 64%, Federal Taxes 19%, Total Taxes 83%; Mining and Quarrying, State Taxes 44%, Federal Taxes 16%, Total Taxes 60%; Transportation and Public Utilities, State Taxes 28%, Federal Taxes 8% Total Taxes 36%; Construction, State Taxes 17%, Federal Taxes 15%, Total Taxes 32%; Finance, Banking and Insurance, State Taxes 22%, Federal Taxes 9%, Total Taxes 31%; Wholesale and Retail Trade, State Taxes 15%, Federal Taxes 12%, Total Taxes 27%; Manufacturing as a Whole, State Taxes 14%, Federal Taxes 10%, Total Taxes 24%.

Is that not a startling tabulation? There is no dry reading in that for any thinking business man. Lest any hasty business man point out as an error that these statistics of taxation are based upon net profits instead of gross earnings, let me emphasize the vitally important fact that taxes *are* paid, not out of gross income, but *out of net profits!* This again is a point pointed out with great emphasis by this same business economist, Roger Babson.

Now then, Mr. Business Man, no matter what line of industry you may be in, is not the fact that 64 per cent is taken in taxes of the farmer's income over and above all expenses, a matter of importance to you? You are a maker and seller of merchandise. You cannot make unless people will buy and have money to buy. If they have not money to buy you must lay off employees and decrease your production—and this in turn again decreases the demand for manufacture in all lines.

I can say with every assurance—and the facts of the tax levies themselves makes the assurance doubly emphatic—that the question of our obsolete and unscientific tax systems in our states *is the most serious problem now confronting our national business life!*

What is the answer?

Look over that tabulation of the per-

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centages of our tax levies. Practically all of those taxes are levied against the things that the farmer produces—the products of his labor—the very things that we need most in our national business life. Practically all of these taxes upon business and manufacture in all its forms are levied against the things that are produced by business men and industry. In other words our tax system—obsolete and destructively unscientific—is based upon heavy imposts, placed upon the very products of industry and labor that are the life blood of our nation and the definite objects of our industrial life. We are constantly taxing ourselves and our farm and industrial life out of prosperity and into hard times. And then, in fact, we are apt to regard hard times as a necessary recurrent event and entirely normal!

Who is responsible for this? The business men and manufacturers of the country? Hardly! They are not stupid even though they may be thoughtless in the field of tax economics. The business men and manufacturers have, however, supinely accepted their tax laws and systems from the politicians; and they have been helpless because they have never given any thought to taxation as a scientific subject capable of scientific analysis and through which prosperity can be sustained in industrial fields.

I do not care what field of industry you may suggest, it feels the destructive effects of our present tax systems and methods, directly as to its own plant and products—which, thereby, have to add in the amount of the tax to the price. The farmers furnish an excellent illustration of our economic tax chaos because, with 40,000,000 of them paying 64 per cent of their annual surplus investment and purchasing power in unscientific taxes, the loss to industry in the annual purchasing power of this *one* group alone, is staggering. Business feels it.

Look what it means to those industries that furnish all forms of machinery and fittings to manufacturers—for if those manufatcurers sell less to farmers, they in turn can buy less. If new industries need funds for important enterprises, or established ones need funds for expansion, the available investment capital is depleted by 64 per cent of its availability from the farm group alone. This staggerng loss of purchasing power affects similarly and adversely the lumber men and furniture and wood manufacture of various lines, the machinery and the metal trades of all kinds, the textiles, the shoe and leather and hide industries, the clothing making trades, the industries that make the little luxuries and conveniences of living—do you think that a 64 per cent tax drain out of the profits of farming that farmers buy musical instruments or candy or ice cream for their families when they come to town? Not likely, is it? And then this backs up on the manufacturer in the big industrial centers and upon *his* workers. They have less to manufacture in all lines for there is less that can be bought.

I cannot help quoting Roger Babson again—for he is no visionary doctrinaire but, on the contrary a practical business and financial analyst whose word carries weight in practical business and financial fields. "Everything possible," wrote Mr. Babson, in a recent issue of Forbes Magazine, "should, therefore, be done to impress upon the people the real facts about taxation—that it menaces both rich and poor, the well-to-do and the middle class. But short-sighted and woolly-witted taxation is a scourge that preys upon all of the people all of the time."

So great an authority on economics as Professor Irving Fisher, at the head of the Department of Economics of Yale University, has stated that the country should free industry from taxation and raise our taxes in a scientific manner.

Professor Gunnison Brown of the University of Missouri, perhaps as keen a student of industrial economics as the country possesses, also a professor in the field of economics, has stated that our present unscientific system of taxation is more Socialistic than Socialism itself and not only tends to the destruction of business and industry—upon which our taxes are levied—but is responsible directly for the periodic hard times that business men talk about but are doing nothing fundamental to correct. These are high authorities and worth listening to.

What are the business men of serious thought going to do about it? Are they going to continue to trust the politicians with unchallenged power to continue to tax business and industry to a famine out of the political ignorance and tradition out of an unscientific past? For, as every business knows—or can easily learn—the politician's invariable practice is to levy a tax against industry whenever it becomes industrious and helps thereby to build up and maintain our national prosperity!

You know, I should like to hear a few expressions of some business men on this subject. Just drop me a line.

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Residences (400), Cottman and Summerdale streets, Philadelphia. Architect, private plans. Owner, E. J. McPeak, 2024 Frankford avenue, Philadelphia. Brick, 2 stories, various sizes, slag and tile roof, hardwood and cement floors, hot water heat, electric light, tile work, metal lath, basement garages. Owner will start work in spring, 1927, when sub-bids will be taken.

Manufacturing Building (add.), Thirty-third and Reed streets, Philadelphia. Architect, Edwin A. Roth, Drexel Building, Philadelphia. Owners, Lipsky Brothers, on premises. Brick, stone, reinforced concrete, slag construction, 4 stories, 90x110 feet, composition roof, cement floors, elevator, steam heat, electric light, rolled steel sash. Plans completed. Architect ready for bids.

School, Seventh and Christian streets, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Mary Magdalen De Pazzi, Rev. A. Garritano, on premises. Brick, cut stone, steel, 4 stories and basement, 140x72 feet, slag roof, cement and maple floors, metal weather strip, architectural terra cotta, metal lath, tile, marble and terrazzo work, rolled steel sash, bond, ornamental iron work, metal toilet partitions. Architect taking bids due January 10th.

Stores (3), Apartments (6), Southwest Corner Germantown and Hortter streets, Philadelphia, $60,000. Architects, Lippincott & Schaef, 11 South Sixteenth street, Philadelphia. Owner, Charles Halpern, care of architects. Brick, limestone, 3 stories, 52 feet 4 inches x 113 feet, slag roof, hardwood and pine floors, fire tower, steam heat, electric light, tile work. Plans in progress.

Y. M. C. A. Building, Greene street, Germantown, Pa., $650,000. Architects, Thomas, Martin & Kirkpatrick, 220 South Sixteenth street, Philadelphia. Owners, Young Men's Christian Association, W. L. Gruhler, Chairman Building Committee, 219 High street, Philadelphia. Fireproof, 4 stories. Plans in progress.

Offices (alts. and add.), Morris Building, 1411 Chestnut street, Philadelphia. Architect, Arthur H. Brockie, 254 South Fifteenth street, Philadelphia. Owners, E. B. Smith & Co., on premises. Bronze work, cabinet work, call bell system, dumb waiters, electric work, elevators, hardware, kalamein sash, lockers, mail chute, marble work, painting and glazing, plumbing, reinforced concrete, pneumatic tubes, slag roof, metal lath, rubber flooring, steel work. Revised plans in progress.

Stores (2), Apartments (6), Fifty-eighth and Springfield avenue, Philadelphia. Architect, Albert N. Dobbins, 1718 Cherry street, Philadelphia. Owner, J. N. McMichael Realty Co., on premises. General interior alterations, lowering floors, vapor heat, plumbing, carpentry and mill work. Revised plans about completed.

Apartment House, Southeast Corner Sixty-third and Walnut streets, Philadelphia, $1,500,000. Architects, Stetler & Deysher, Jefferson Building, Philadelphia. Owner, L. M. Lifter, Jefferson B uilding, Philadelphia. Brick, steel, limestone, cut stone, 9 stories. Ready for bids in one week.

Residence (alts. to apartment), Northeast Corner Second and Boulevard, Philadelphia. Architect, William Lowenthal, 1208 Chestnut street, Philadelphia. Owner ,Hyman W. Rubin, 2500 South Second street, Philadelphia. Local stone, 2 stories and basement, 17x67 feet add., 2 stories, 17x14 feet, slate and slag roof, hardwood floors, heating and lighting changes, metal skylights. Plans in progress. Ready for bids in 10 days.

West Philadelphia High School (alts. and add.), Forty-eighth and Walnut streets, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Plans about completed. Owners will take bids in a month.

New Junior School, Eighteenth and Chelten avenue, Philadelphia. Architect, I. T. Catherine, Nineteenth above Chestnut street, Philadelphia. Owners, Board of Education, Nineteenth above Chestnut street, Philadelphia. Brick, cut stone, steel, 3 stories and basement, 290x185 feet (plumbing, heating, electric separate), cement and maple floors, slag roof, hollow tile, roof ventilators, Parlock waterproofing, dampproofing, metal lath, rolled steel sash, bond, ornamental iron work. Owners taking bids due January 4th.

Building, Southeast Corner Thirty-third and Dickinson streets, Philadelphia. Architect, Ralph E. White, Pennsylvania Building, Philadelphia. Owners, Philadelphia Magnesia Co., on premises. Brick, steel, 1 and 2 stories, 91x56 feet, slag roof, pine and cement floors, steel doors. Architect taking bids due January 5th.

Apartment House and Stores, Broad and Erie avenue, Philadelphia. Architect, Clarence E. Wunder, 1520 Locust street, Philadelphia. Owner, William Freihofer, Twentieth and Indiana avenue, Philadelphia. Brick, steel, electric light, slag roof, hardwood floors, metal bulks, plate glass. Architect taking bids.

Leverington Theatre Building, Ridge and Leverington avenues, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Felt Brothers, Packard Building, Philadelphia. Brick, steel, cast stone, marble and granite base, stores (9), 1 and 2 stories, 144x78 feet, gypsum slag roof, cement marble base, composition and terrazzo floors, seating capacity 1,170, ornamental plaster, ornamental iro nwork, brass rails, metal bulks, plate glass, fire and kalamein doors (heating, electric, ventilating and plumbing reserved). Architects taking bids due December 30th, 11 A. M.

Contract No. 6, 1927, Pennsylvania Railroad, switches, crossings and frogs. Contract No. 7, 1927, Pennsylvania Railroad, structural metal work for bridge. Owners, Pennsylvania Railroad, Montgomery Smith, Seventeenth and Filbert streets, Philadelphia. Owners taking bids due January 3rd.

Manufacturing Building, Warehouse, Sales Rooms, Allegheny, Clearfield and Sixth streets, Philadelphia. Architect, not yet selected. Owners, Central Plumbing & Supply Co., care of A. Schmerling, Twelfth and Spring Garden streets, Philadelphia. Site, 4 acres. Owners expect to start work February, 1927.

Residence alts.), 6307-09 Girard avenue, Philadelphia, $6,000. Architect, private plans. Owners, Ray E. Seyler, Inc., 6932 Market street, Philadelphia. General alterations. Permit issued.

Rooming House (alts.), 1533 Green street, Philadelphia, $2,000. Architect, private plans. Owners, Carr, Courtney & Nagle, 3025 Poplar street, Philadelphia. General alterations. Permit issued.

Residence, 8522 Germantown avenue, Philadelphia, $10,000. Architect, Melvin H. Grebe, 5 East Highland avenue, Philadelphia. Owner, Henry McGuckin, East Evergreen avenue, Chestnut Hill, Philadelphia. Brick, 2 stories, 29x52 feet, hardwood and pine floors, slag roof, electric light, tile work. Permit issued.

Residences and Stores (5), North side Bainbridge street, East of Seventh street, $47,000. Architect, private plans. Owner, B. Bornstein, Belfield avenue and Wingohocking street, Philadelphia. Brick, 2 stories, 16x20 feet, 12x30 feet, slag roof, pine floors, electric light. Permit issued.

Garage, 329 South Broad street, Philadelphia, $2,500. Architect, private plans. Owners, Alpha Sign Co., 231 Spahr street, Pittsburgh, Pa. Permit issued.

Residences (2), 4133-35 Comly street, Philadelphia, $16,000 total. Architect, private plans. Owner, A. Polarkos, 4131 Comly street, Philadelphia. Brick, 2 stories, 16x50 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Permit issued.

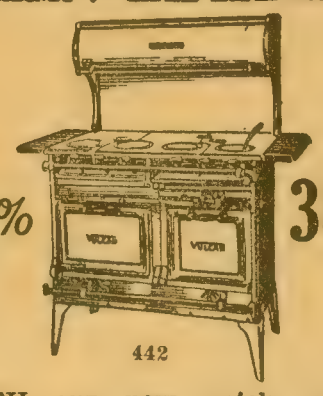
Residences (17), West side Belgrade street, North of Westmoreland street, Philadelphia, $3,800 each. Architect, private plans. Owner, Joseph Silver, 5116 North Camac street, Philadelphia. Brick, 2 stories, 15x33 feet, 11x7 feet, slag roof, pine floors, hot water heat, electric light. Permit issued.

Contract No. 8, 1927, Pennsylvania Railroad. Owners, Pennsylvania Railroad, Montgomery Smith, Purchasing Agent, Seventeenth and Filbert streets. Owners taking bids due January 5th at noon for frogs, rail braces, crossings.

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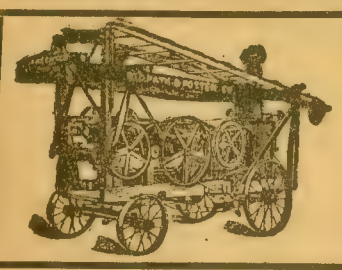
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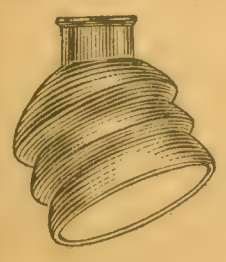
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Contracts Awarded

Scope of Contract and Successful Bidders; "Inside" Information for the Material Man and Interior and Exterior Fitter.

School, Griscom and Church streets, Philadelphia. Architects, Hoffman-Henon, Finance Building, Philadelphia. Owners, St. Joachim's Roman Catholic Church, Rev. J. B. Dever, on premises. Stone, brick, cut stone, granite, steel, 3 stories and basement, 121x60 feet, (plumbing, heating, electric reserved), slate roof, cement and maple floors, hollow tile, metal weather strips, shoring, waterproofing, metal lath, tile, marble and terrazzo work, kalamein and hollow metal doors, bond ,iron stairs, ornamental iron work, metal toilet partitions, limestone. Contract awarded B. J. McKenna, 2643 North Hutchinson street, Philadelphia.

Garage (add.), 5115 Frankford avenue, Philadelphia. Architect, Edward Schoeppe, 316 South Fifteenth street, Philadelphia. Owners, Roth Buick Co., on premises. Brick, 1 story, 76x64 feet, slag roof, cement floors, steam heat, oil burner, rolled steel sash, ornamental iron work, carpentry and mill work, electric light, slab over basement. Contract awarded Wintz Brothers, 1618 Sellers street, Philadelphia.

Church (alts. and add.), Crescentville, Pa. Architect, Horace Wells Sellers, Stephen Girard Building, Philadelphia. Owners, Trinity Episcopal Church, on premises. Stone, 1½ stories, 54x30 irregular, slate roof, oak and pine floors, steam heat, electric light, plumbing. Contract awarded J. S. Cornell & Son, 1528 Cherry street, Philadelphia.

Manufacturing Building (alts.), 222 Lombard street, Philadelphia, $11,000. Architect, Walter Smedley, Stephen Girard Building, Philadelphia. Owners, Abbott's Alderney Dairies, Thirty-first and Chestnut streets, Philadelphia. Alterations to cots and girders in loading plant. Contract awarded to Turner Const. Co., 1700 Walnut street, Philadelphia.

Laundry Building, Allegheny avenue, West of Third street, Philadelphia. Architect, private plans. Owners, Fairhill Laundry Co., on premises. Brick, steel, 1 story, 150x50 feet, electric light, slag roof, cement floors. Contract awarded C. S. Bannett, 1633 South Fifty-ninth street, Philadelphia.

Residences (39), Hawthorn, McPeak and Robbins avenue, Philadelphia, $180,500. Architect, private plans. Owner, Hyman Shifren, 2246 South Sixty-sixth street, Philadelphia. Brick, 2 stories, 15x29 feet, 8x11 feet, (2) 3 stories, 15x38 feet, slag roof, hardwood and pine floors, hot water heat, electric light. Contract awarded to Philip Yoskin, 2246 South Sixty-sixth street, Philadelphia.

Manufacturing Building (add. and alts.), 4528 Worth street, $51,000. Architect, private plans. Owners, Joseph Greer, Inc., on premises. Brick add., 8x3 feet and 8 feet 6 inches x 22 feet, general alterations. Contract awarded to William F. Newbery, Otis Building, Philadelphia.

Residence and Store (add.), 1035 Vine street, Philadelphia, $12,000. Architect, private plans. Owner, Mrs. B. Cassidy, on premises. Brick, 2 stories add., 20x101 feet, slag roof, electric light. Contract awarded to Carr & Courtney, 3025 Poplar street, Philadelphia.

Factory (add.), 3300 East Thompson street, Philadelphia, $4,500. Architect, private plans. Owner, David Salkind, 634 Pine street, Philadelphia. Brick, 1 story add., 49x40 feet. Contract awarded to John Gyiprivitz, 711 Pine street, Philadelphia.

Coal Trestle, North side Reimel street, West of Mascher street, $4,500. Architect, private plans. Owner, Nathan Leibovitz, 4715 North Tenth street, Philadelphia. Contract awarded to Fanning-Schuette Co., Third and Cayuga streets.

Residence and Store (add. and alts.), 1416 South Broad street, $4,300. Architect, private plans. Owner, Simon Borowsky, 437 Spruce street, Philadelphia. Brick, 1 story add., 3 feet 5 inches x 19 feet, general alterations. Contract awarded to M. Sanberg, 2622 South Ninth street, Philadelphia.

Building (repairs), 238 Cherry street, Philadelphia, $2,000. Architect, private plans. Owner, Mrs. Bessie Brooks, 1911 North Thirty-second street, Philadelphia. General fire repairs. Contract awarded to P. M. Colen, 2603 Poplar street, Philadelphia.

Residence (add.), 7833 Winston road, Philadelphia, $3,000. Architect, private plans. Owner, George Woodward, Chestnut Hill, Philadelphia. Stone add., 12x18 feet. Contract awarded to J. Riley & Son, Forrest avenue, Mt. Airy, Philadelphia.

Residence (add.), 224 West Tulpehocken street, Philadelphia, $2,100. Architect, private plans. Owner, E. J. Moore, 224 West Tulpehocken street, Philadelphia. Brick, 1 story add., 9x14 feet, tile work, electric work, plumbing. Contract awarded to William C. Wright & Son, 22 Harvey street, Philadelphia.

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Pennsylvania Construction News

Factory, Chester, Pa. Architects, Silverman & Levy, Elrae Building, Philadelphia. Owner, name withheld. Brick, 2 stories, 50x130 feet, slag roof, pine floors, steam heat, electric light. Plans in progress.

Parish House and Parsonage, Shamokin, Pa. Architect, W. H. Lee, Schaff Building, Philadelphia. Owners, Lincoln Street Methodist Episcopal Congregation, George S. Wower, Shamokin, Pa. Sketches drawn.

Clothier Memorial, College Grounds, Swarthmore, Pa. Architects, Karcher & Smith, 1320 Locust street, Philadelphia. Owners, Swarthmore College, Swarthmore, Pa. Stone. Work contemplated. Sketches being drawn.

Factory (fire rebuilding), Darby, Pa. Owners, Roberts Filter Co., Sixth and Columbia avenue, Darby, Pa. Work contemplated.

Parish House, Stonehurst, Pa. Architects, Bissell & Sinkler, 1520 Locust street, Philadelphia. Owners, St. Giles' Protestant Episcopal Church, Rev. W. C. Pugh, Upper Darby, Pa. Work contemplated.

Country Club, Loyalton, Pa. Architect, C. J. Lappley, Parkside Building, Harrisburg, Pa. Owners, Lykens Valley Country Club, E. A. Van Horn, Lykens, Pa. Brick. Architect selected. Sketches in progress.

Children's Home, Paxtang, Pa. Architect, C. J .Lappley, Parkside Building, Harrisburg, Pa. Owners, Knights of Ku Klux Klan, care of Mary I. Goodwin, 1531 North Second street, Harrisburg, Pa. Brick. Architect selected. Sketches in progress.

Residence and Garage, College Hill, Easton, Pa. Architect, William Michler, Drake Building, Easton, Pa. Owner, Charles H. Knight, Sullivan street, Easton, Pa. Indiana limestone, tile, 2½ stories, 80x33 feet, 24x40 feet, tile roof, hardwood floors, oil burner, electric light, tile work. Architect about ready for revised bids.

Garage and Apartment, Allentown, Pa. Engineer, A. J. Bibighaus, 530 Hamilton street, Allentown, Pa. Owner, name withheld. Steel, stucco, wood block, 2 stories, 60x100 feet, composition roof, pine and concrete floors, hot air heat, electric light. Engineer about ready for bids.

Residence, Overbrook Hills, Pa. Architect, E. Allen Wilson, 1208 Chestnut street, Philadelphia. Owner, Charles Swegar, care of H. Hansen, 52 Penn Boulevard, East Lansdowne, Pa. Frame, 3 stories, 24x40 feet, garage, 1 story, 10x18 feet, shingle roof, hardwood floors, cement floors, central steam heat, electric light, metal lath, cement work, tile work. Owner takin gsub-bids.

Residence, Allentown, Pa. Architects, Jacoby & Everett, Commonwealth Building, Allentown, Pa. Owner, Dr. Curtis, care of architects. Brick, 2½ stories, 41x34 feet, tile roof, hardwood floors, electric light, tile work. Architects taking bids due January 5th.

Church, Columbia, Pa. Architects, Ritcher & Eiler, 147 North Fifth street, Reading, Pa. Owners, St. John's Lutheran Church, Rev. Dr. A. M. Mehrkam, 825 Walnut street, Columbia, Pa. Brick, 1 story and basement. Owners taking bids due January 15th at 6 P. M.

Fire House, 320-22 Center street, Mahanoy City, Pa. Architect, John B. Thompson, 34 South Seventeenth street, Philadelphia. Owners, West End Fire Co., No. 5, Mahoney City, Pa. Brick, 3 stories, 25x75½ feet. Owners taking bids due January 5th.

Miscellaneous Work, Chester Township, Pa. Owners, Chester School District, C. E. Sanderson, Chester, Pa. Owners taking bids due January 14th. Certified check, 10 per cent. Program-bell for Dewer-Horacemann and Library Building; Luken and Huber Building, repairs to aster clock and bell system and furnish new secondary clock at Franklin School.

Road Work, Pennsylvania. Owners, Pennsylvania Department of Highways, Harrisburg, Pa. Owners taking bids due January 7th at 10 A. M. Monroe County, Route 157, Sec. 4, Smithfield and Middle Smithfield Townships, 10,171 feet. One course reinforced concrete. Certified check, $2,500.

Pennsylvania Contracts Awarded

Storage Building, Chester, Pa. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, Stevenson Cold Storage Co., Chester, Pa. Brick, cut stone, reinforced concrete, steel, 1 story and basement, 80x130 feet, slag roof, wood block floors, hollow tile, plumbing, electric light, metal lath, rolled steel sash and skylights, bond, ornamental iron work. Contract awarded Robert E. Lamb Co., 841 North Nineteenth street, Philadelphia.

Passenger Station and Freight House, Souderton, Pa. Architect, S. T. Wagner, Twelfth and Market streets, Philadelphia. Owners, Reading Railroad, Twelfth and Market streets, Philadelphia. Brick, stucco, cut stone, steel, 1 story, 25x60 feet, 12x30 feet, freight house, 20x40 feet, slate roof, pine floors, hot water heat, electric light, plumbing, bond, ornamental iron work. Contract awarded to Pennsylvania Engr. & Const. Co., Real Estate Trust Building, Philadelphia.

Residence, Wayne, Pa. Architect, Robert Sentman, 1437 Spruce street, Philadelphia. Owner, Albert Shaffner, on premises. Frame, 2½ stories and basement, 35x40 feet, shingle roof, oak and pine floors, hot water heat, electric light, ornamental iron work. Contract awarded L. Heister, Wayne, Pa.

Residence (alts. and add.), Paoli, Pa. Architect, R. Brognard Okie, 306 South Smedley street, Philadelphia. Owner, Dr. Ralph Pemburton, on premises. Stone, frame, carpentry and mill work, plumbing, hardware, shingle roof, hot air heat, electric light, painting and glazing. Contract awarded William H. Parlaman, Paoli, Pa.

Assembly Hall (alts. and add.), Bustleton, Pa. Architect, C. H. Fries, Drexel Building,

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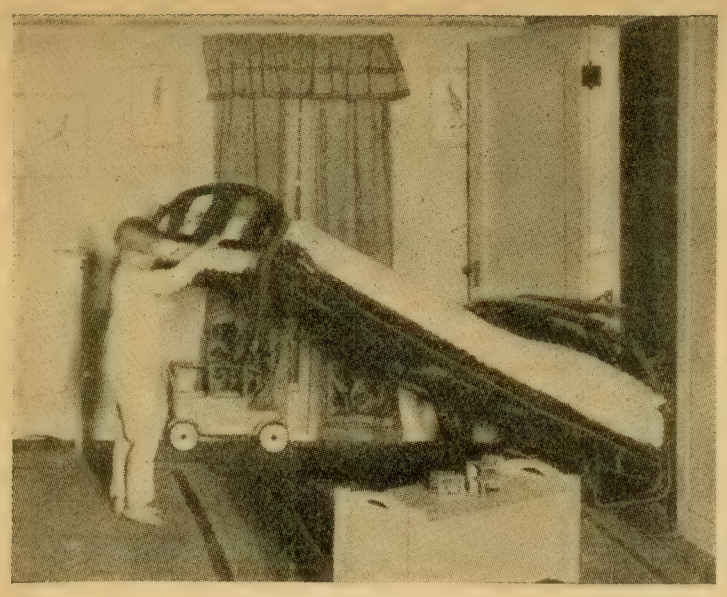
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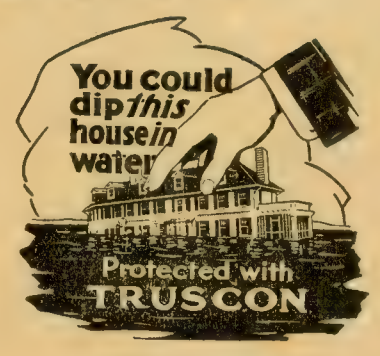
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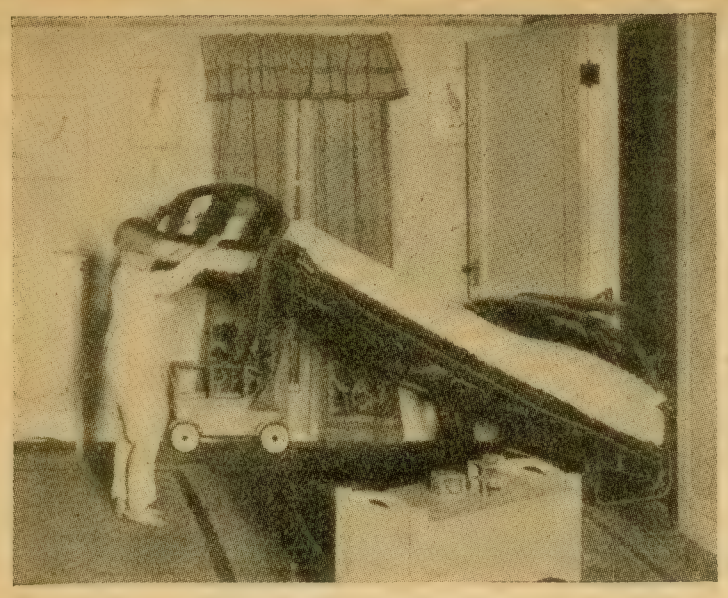
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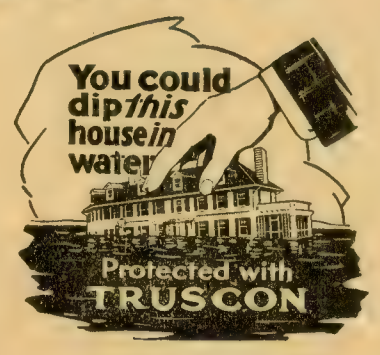


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Philadelphia. Owners, St. Luke's the Beloved Physician Church, Rev. Paul Micou, Bustleton, Pa. Stone, 16x20 feet, 10x30 feet, hot water heat, electric light, tile work, wood shingle roof, maple floors. Contract awarded Chancellor Day, 2644 Rhawn street, Philadelphia.

Residence (alts. an dadd.), Bryn Mawr, Pa. Architect, Louis Rush, Middle City Building, Philadelphia. Owner, Mrs. N. D. Grange, on premises. Stone, stucco, 2½ stories and basement, 38x116 feet, wing 22x43 feet, slate roof, oak and pine floors, hot water heat, electric light, metal lath, tile work, ornamental iron work. Contract awarded H. E. Grau Co., 2125 Cherry street, Philadelphia.

Residence, Morrisville, Pa. Architects, Fowler & Michel, Fitzcharles Building, Trenton, N. J. Owners, W. A. Sipe and A. Hamilton, Jr., care of architects. Frame, 2½ stories, 30x32 feet, slate roof, hardwood floors, hot water heat, electric light, tile work. Contract awarded to William C. Akers, 247 Hollywood Drive, Trenton.

Retaining Wall, Fifth and Glenwood avenue, Philadelphia. Architects, The Ballinger Co., Twelfth and Chestnut streets, Philadelphia. Owners, S. L. Allen & Co., on premises. Contract awarded P. Haibach Cont. Co., 1261 North Twenty-sixth street, Philadelphia.

Pennsylvania State Highway Work. Huntingdon County, R-431, Cromwell and Clay Townships, grading and drainage. Contract awarded to Monongahela Const. Co., Fairmount, W. Va., $53,935.70.

Warren County, R-93, bridge over Allegheny River, East of Irvineton. Reinforced concrete open span arch bridge. Contract awarded to Porterfield-Binger Const. Co., Youngstown, Ohioi, $162,120.97.

New Jersey Construction News

Passenger and Freight Station, Freight Station Mississippi and Missouri avenues, North of Baltic avenue, Passenger Station, Arkansas avenue, Missouri and Arctic avenues, Atlantic City, N. J. $4,000,000. Architect, S. T. Wagner, Twelfth and Market streets, Philadelphia. Owners, Philadelphia & Reading Railroad, Twelfth and Market streets, Philadelphia. Passenger platform concrete, 1,100 feet long. Plans in progress. Owners will take bids on first unit early in 1927.

Ward Building, Ventnor, N. J. Architect, Vivian B. Smith, Guarantee Trust Building, Atlantic City, N. J. Owners, Betty Bacharach Home for Crippled Children, Ventnor, N. J. Architect selected.

Store (alts. and add.), 7 North Broad street, Trenton, N. J. Architect, J. O. Hunt, Hunt Building, Trenton, N. J. Owners, Palace Confectionery Co., on premises. Brick, stone, 4 and 3 stories, 25x45 feet, slag roof, heating extension, electric light, tile and marble, plate glass. Plans in progress.

Store, Moorestown, N. J. Architects, Davis, Dunlap & Barney, 1805 Walnut street, Philadelphia. Owners, Moorestown Trust Co., H. B. Coles, Moorestown, N. J. Brick, 1 story and basement, slga roof, plate glass, metal bulks. Plans in progress. Will be ready for bids in two weeks.

Store (alts.), Academy and Broad streets, Trenton, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owner, Emanuel New, Wilmeta Apartments, Trenton, N. J. Copper work, plate glass, vapor heat, wood floors, elevators, plumbing. Architects about ready for bids.

Residence, Morris Heights, N. J. Architects, W. W. Slack & Son, Trenton Trust Building, Trenton, N. J. Owners, Oscar Davison, Hamilton and Anderson streets, Trenton, N. J. Cinder block, stucco, 2 stories, 33x45 feet, tile roof, hardwood floors, hot water heat, electric light, tile work. Architects ready for bids.

Apartment Building, States avenue, Atlantic City, N. J. Architect, Benjamin Brown, Guarantee Trust Building, Atlantic City, N. J. Owner, C. Hass, care of architect. Brick, steel, 3½ stories, irregular size, slag roof, hardwood floors, steam heat, electric light, tile and marble. Architect ready for sub-bids.

Elks' Home (add. and alts.), 1613 Arctic avenue, Atlantic City, N. J. Architect, Oscar Smith, Union National Bank Building, Atlantic City, N. J. Owners, Colored B. P. O. E., care of architect. Brick, steel, 1 story add., 40x90 feet, slag roof, hardwood floors, electric light, tile and marble. Architect taking bids due as soon as possible.

Store, Apartment and Garage, Boardwalk and Missouri avenues, Atlantic City, N. J. Architect, Benjamin Brown, Guarantee Trust Building, Atlantic City, N. J. Owner, Charles Nemcof, care of architect. Brick, frame and steel, 2 stories and basement, 104x100 feet, 1 story, 104x200 feet, slag roof, hardwood and concrete floors, hot water heat, electric light, metal lath, tile and marble, steel sash, fire doors, iron stairs. Architect taking revised bids due as soon as possible.

Administration Building, Atlantic City, N. J. Architect, H. A. Stout, Guarantee Trust Building, Atlantic City, N. J. Owners, Atlantic City School Board, H. H. Young, secretary, Atlantic City, N. J. Fireproof, 3 stories, 47x120 feet, slag roof, hardwood floors, terra cotta, elevators, stone, tile and marble, electric light. Owners taking bids due January 20th.

Highway Work, New Jersey. Owners, State Highway Commission, Broad Street Bank Building, Trenton, N. J. Route 1 Extension, Sec. 3, Jersey City, Contract 5, construction of covered cut and bridges, excavation, concrete, structural and other steel, asphalt paving, granite block paving. Owners taking bids due January 10th at noon. Deposit ,$50, refunded. Certified check, $100,000.

New Jersey Contracts Awarded

School, Mt. Ephraim, N. J. Architects, Edwards & Green, Camden, N. J. Owners, Board of Education, Mt. Ephraim, N. J. Contract awarded George Bachman, Camden, N. J., $34,237. Heating, H. Knecht, West Collingswood, N. J., $5,450. Plumbing, Walton Plumbing & Heating Co., Camden, N. J., $3,400. Electric, Merit Elec. Co., 630 Race street, Philadelphia, $875.

Cafeteria Building, 531-33 Market street, Camden, N. J. Architects, Lackey & Hettel, 5 Hudson avenue, Camden, N. J. Owners, Board of Directors, Chamber of Commerce, Camden, N. J. Brick, 3 stories, 40x100 feet, concrete and hardwood floors, steam heat, electric light, tile work, general alterations. Contract awarded to J. W. Draper, 436 Haddon avenue, Camden, N. J.

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Miscellaneous Construction News

Residence, Westover Hills, Wilmington, Del. Architect, W. Woodburn Potter, Real Estate Trust Building, Philadelphia. Owner, Jasper Crane, care of architect. Brick, limestone, 2 stories and basement, 35x90 feet. Preliminary plans in progress.

Residence, Wilmington, Del., $10,000. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, Mr. Fulks, care of Cinder Block Corp., 1232 Thatcher street, Wilmington, Del. Brick, 2 stories, 25 feet 6 inches x 37 feet, slate and tin roof, tile, stucco, oak floors, hot water heat. Owner will build and will take sub-bids.

Residence, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owners, Peter W. Newell & Sons, 1401 Maple street, Wilmington, N. J. Brick, 3 stories, 25 feet 6 inches x 37 feet, slate and tin roof, tile, stucco, oak floors, hot water heat. Owners will build and will take sub-bids.

Alterations and Addition, 210 West Seventeenth sereet, Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington. Owner, D. L. Gabke, 210 West Seventeenth street, Wilmington, Del. Brick, 3 stories, 20x60 feet, fire escapes, hot water heat, tile work, oak floors, composition roof. Owner taking bids.

Miscellaneous Contracts Awarded

Building (add. and alts.) to (3) Apartments, 916 Jefferson street, Wilmington, Del., $5,000. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, John B. Dunbar, 507 Shipley street, Wilmington, Del. Brick, 20x60 feet, tin roof, pine floors, hot water heat, electric light, skylights, fire escape, interior decorations. Contract awarded to F. G. Krapf, 421 Orange street, Wilmington, Del.

Building (add. and alts.), Wilmington, Del. Architect, John A. McKibbin, Industrial Trust Building, Wilmington, Del. Owner, Max Keil, 2103 Boulevard, Wilmington, Del. Brick, 1 story, 33x38 feet, hot water heat, oak floors, alterations into 3 apartments, skylights, fire escapes, steel, tile, plate glass. Contract awarded to F. G. Krapf, 421 Orange street, Wilmington, Del., $4,000.

MORTAR

Its Importance to the Mason and Builder in Obtaining Best Results in Brickwork

Mortar is the plastic mixture of two or more materials which is used to bind individual bricks together into a solid mass. Its composition, preparation and use is as important in producing good masonry as is the quality of the brick itself.

To be properly equipped in knowledge and skill to produce the highest type of brickwork should be the desire of every one having this work to do.

Submitted by The Common Brick Mfrs. Assn.

Mortar Composition

Ingredients of Mortar

Mortar, as generally used in brick masonry, is some mixture of sand, lime, cement and water. It may contain all of these substances or only three of them and the quality as well as the quantity of each substance may vary. The characteristics of each ingredient is given below.

Standard specifications for each of the solid ingredients have been adopted or recommended by the American Society for Testing Materials and may be found in their book of standards. In some large jobs, materials are rigidly specified and carefully and accurately checked. But, in most jobs, the purchase of materials from reliable sources is sufficient guarantee of quality.

It is then only necessary to see that they are properly mixed to produce the desired mortars and to then see that the mortar is properly used to obtain the right kind of brickwork.

Cement

The first hydraulic cements used in this country were *natural cements,* manufactured by the calcination of argillaceous limestone containing sufficient silica, alumina and iron oxide to confer hydraulic properties when the burned rock was pulverized and gauged with water. These natural cements, though used for years, have been almost completely replaced by Portland cement, which is much more uniform in composition and behavior.

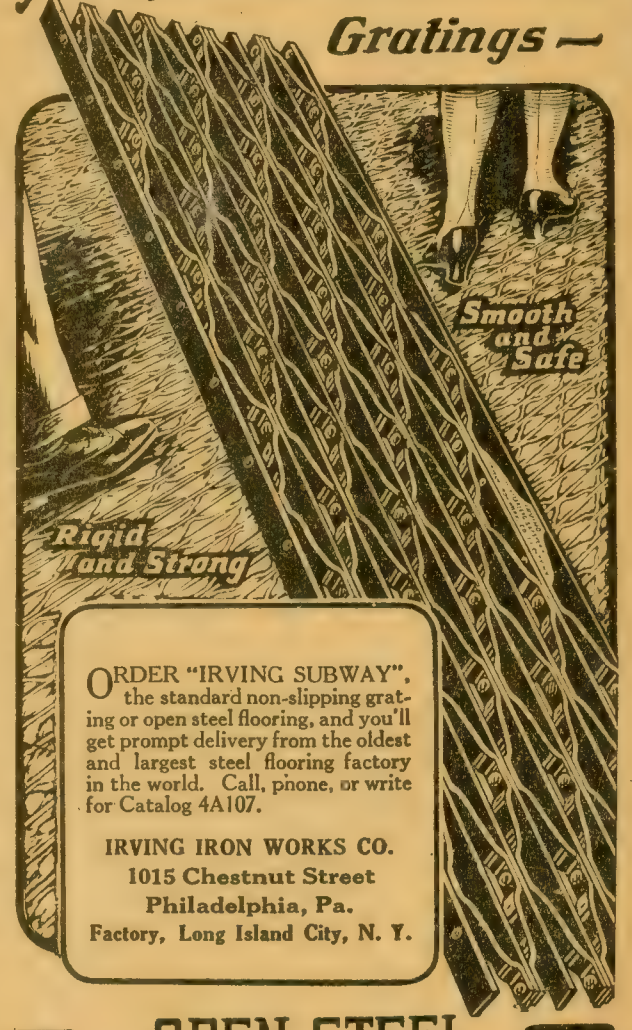
Modern methods of manufacture produce Portland cement of very uniform physical properties and behavior, although the chemical composition may vary slightly.

Natural cements set more rapidly than Portland cements and are slower in developing strength. The strength of 1:2 natural cement mortar is about equal to that of 1:4 Portland cement mortar.

Lime

The name "lime" is generally used to mean "quick-lime." It is also used to embrace "hydrated lime." Chemically, lime is calcium oxide, but in a broader sense it is the class name given to a wide variety of products manufactured by the calcination of limestone, which consists

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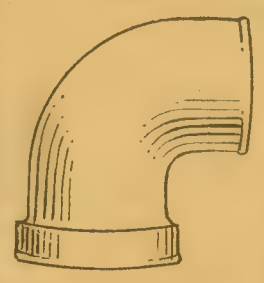


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of heating to expel the carbon dioxide. The resulting product is quicklime.

Quicklime is divided into two grades:

(a) Selected.—Shall be well-burned, picked free from ashes, core, clinker or other foreign material.

(b) Run-of-Kiln.—Shall be well-burned, without selection.

Quicklime is shipped in two forms:

(a) Lump.—Shall be kiln size.

(b) Pulverized. Shall be reduced in size to pass a ¼ inch screen.

Quicklime is divided into four classes: (a) High-calcium; (b) Calcium; (c) Magnesian; (d) High-Magnesian.

Hydrated Lime

Hydrated lime is a dry flocculent powder resulting from the de-hydration of quicklime.

Hydrated lime is commercially divided into four classes:

(a) High-Calcium; (b) Calcium; (c) Magnesian; (d) High Magnesian.

The desired properties of hydrated lime are the proper chemical composition, fineness and constancy of volume.

Sand

Sand is obtained from banks or pits, from river beds or from the sea-shore. Pit sand, free from clay or earthly materials is considered best for mortars, although excellent sand is often obtained from river beds.

For convenience, sand is sometimes graded as fine, medium and coarse. Mortar made with coarse sand has the least percentage of voids; made with coarse or well-graded sand it possesses greater strength. Sand passing a No. 4 screen (4 meshes to the inch) is most commonly used in bricklaying. A screen with long vertical slots and narrow horizontal spaces will screen sand effectively and faster than a screen with square meshes.

Sand for mortar must ordinarily be screened. The usual *specification for sand* is that "it shall be clean and free from vegetable matter, loan, large stones and dust." A simple test for cleanliness is to squeeze some wet sand in the hand. If loam is present, the sand will retain its shape; *if not present*, the sand will emit a gritty sound and when rubbed in the palm of the hand will not leave a slimy deposit.

Mortar Colors

Natural: Mortar may be colored by using colored sand, such as ground granite or other stone. When the desirable shade can be thus obtained, these are preferable to artificial colors, for natural sands and stones usually have a permanent color and do not weaken the mortar.

White joints may be obtained with white sand, ground limestone or marble, using white cement in cement mortars.

The color of the sand, in the finished joint, will, of course, be somewhat modified by uncolored cementing material.

Artificial Mortar Colors: Great care should be exercised in selecting the proper artificial color. Mortar is strongly alkaline and coloring matter should, therefore, be chemically inert or the color may fade or run when in the wall. Mineral colors are preferable.

For cement or cement-lime mortars, *cement* colors should be used; not mortar colors.

The common practice of mixing cement, sand and color in a mortar box with a hoe is not recommended, for uniform batches are difficult to so produce. Wherever possible, it is better to weigh all the ingredients and to measure the water. If the measured ingredients can be mixed in a concrete mixer, better results will be had.

In any case, the manufacturers' directions should be carefully followed.

Mixing Mortar

The three kinds of mortar commonly used are:

Lime mortar, a mixture of lime putty (or hydrated lime), sand and water;

Portland cement mortar, a mixture of Portland cement, sand and water, and

Cement-lime mortar, a mixture of Portland cement, lime, sand and water.

Lime Mortars

Since limes are not always of the same quality, a formula for the proper proportions of lime and sand to produce the best mortar is not possible. Experience is about the only, and also the best guide.

Slaking Lime

Quicklime as such can never be used for structural purposes. It must always be slaked. And since the method of slaking is an important factor in determining the quality of the finished product, the following directions are given as a guide to those who lack experience and as a further protection of the purchaser.

Directions for Slaking: Different kinds of lime vary considerably in the way in which they behave with water. A little supervision over the operation of slaking will amply pay for itself by insuring the production of the greatest possible quantity and the best possible quality of putty. To find out how to slake a new lot of lime, it is safest to try a little of it and see how it works. Since different lots of the same brand of lime vary somewhat, and since the weather conditions at the time have a decided influence, it is wise to try a sample from each lot used, whether familiar with the brand or not.

In a bucket, put two or three lumps of lime about the size of one's fist, or, in the case of granular lime, an equivalent amount. Add enough water to just barely cover the lime, and note how long it takes for slaking to begin. Slaking has begun when pieces split off from the lumps or when the lumps crumble. Water of about the same temperature should be used for test and field practice.

If slaking begins in less than five minutes, the lime is quick slaking; from five to thirty minutes, medium slaking; over thirty minutes, slow slaking.

For quick-slaking lime, always add the lime to the water, not the water to the lime. Have enough water at first to cover all the lime completely. Have a plentiful supply of water available for immediate use—a hose throwing a good stream, if possible. Watch the lime constantly. At the slightest appearance of escaping steam, hoe thoroughly and quickly, and add enough water to stop the steaming. Do not be afraid of using too much water with this kind of lime.

For medium-slaking lime, add the water to the lime. Add enough water so that the lime is about half submerged. Hoe occasionally if steam starts to escape. Add a little water now and then if necessary to prevent the putty from becoming dry and crumbly. Be careful not to add more water than required, and not too much at a time.

For slow-slaking lime, add enough water to the lime to moisten it thoroughly. Let it stand until the reaction has started. Cautiously add more water, a little at a time, taking care that the mass is not cooled by the fresh water. Do not hoe until the slaking is practically complete. If the weather is very cold, it is preferable to use hot water, but if this is not available, the mortar box may be covered in some way to keep the heat in.

Making Lime Mortar

After slaking quick-lime into lime putty, a small quantity of sand is usually added and the mixture put aside in a pile until used. It should stand at least 24 hours before use; a week is better. When required for mortar, the sanded "putty" is shoveled into the mortar box, and "tempered" by adding water and more sand and working to a proper consistency. This is attained when the mortar slides easily off the trowel. Ageing lime paste enables it to carry more sand.

Mortar with Hydrated Lime. Hydrated lime is essentially slaked lime, purchased and delivered in the form of a fine dry powder, instead of a paste. It is sometimes used where space on the job is limited and therefore not room to preparepare and store a stock of lime putty; and also when the time and skill necessary to prepare lime putty is not available. It is more quickly and accurately proportioned than lump lime.

Hydrated lime does not require slaking. It is usually mixed with the sand and the water added. When so mixed it does not trowel so easily as mortar made from lime putty, but the working qualities may be improved by allowing the mortar or paste to soak over night. Slaked

lime (lime putty) is to be used in preference to hydrated lime, when possible.

Cement mortar. Since Portland cement is of very uniform quality, cement mortar can be mixed in any desired proportions. The preparations recommended and most frequently specified for maximum strength and other desirable qualities are:—one (1) part Portland cement and three (3) parts of sand, by volume, with sufficient water for the proper consistency. A greater amount of sand weakens the mix. A common but dangerous practice is to use more sand than specified in order to lessen the mortar cost, with a result that is sometimes disastrous.

Portland cement mortar is not plastic; it works "short."

Laying brick with Portland cement mortar is slow and more difficult and the bed joints are apt to be not so well filled as with a more plastic mortar.

Cement-lime Mortar. To produce a more plastic or easily worked mortar, lime putty is added to the cement mortar. Any desired amount may be used, but a very good mixture for all-around work, which is strong and also economical, is one (1) part cement, one (1) part lime and six (6) parts of sand. Such a mixture works smoothly and easily under the trowel and produces brickwork of high strength.

Re-tempering Mortar. Specifications usually require that cement mortars be *not* re-tempered, for the reason that, if the mortar has taken any degree of initial set, the re-tempered mortar is weaker. The quick-setting mortars are most effected. In fact, the lossof strength is roughly in proportion to the speed of mortar setting.

With a slower setting Portland cement, the loss of strength is probably not serious, if the mortar is re-tempered immediately after the initial set. It might, in fact, be re-tempered several times without seriously effecting the tensile strength, but most codes do not permit re-tempering and it is a dangerous practice at best.

With the slower-setting cement-lime or lime mortars, re-tempering is not harmful. A safe guide is that any mortar must not be used after it has passed beyond a state of slight initial set.

The process of re-tempering is to add enough water to restore the desired consistency.

Mortar Colors. The proper methods of using mortar colors are previously described under "Ingredients of Mortar."

Use of Mortar

Selecting the Mortar. Three factors should be considered; viz., the required strength and exposure of the brickwork, the cost of the mortar and the degree of plasticity, which latter also affects the speed of laying and hence the cost of brickwork.

It is difficult to lay down any hard and fast rules regarding the kind of mortar for a particular piece of work, but the following may serve as a guide.

It is difficult to lay brick on a bed of soft mortar with a joint ¾ inch thick or over. A ½ inch joint is the more common.

Lime Mortar. Lime mortar may be used for house construction above ground, except where very heavy loads have to be carried on brick piers, or where walls are much cut up by window or door openings, or in very exposed situations. While it is the lowest in cost of all the mortars, it is not recommended.

It should not be used for exterior basement walls subject to a great deal of dampness, unless the wall is thoroughly waterproofed outside, because excessive dampness, if long continued, makes it lose its binding properties.

Straight lime mortar should never be used for fire-places and flues.

Lime mortar hardens slowly and gets stronger with age.

Natural Cement Mortar. Natural cement mortar may be used in walls or piers carrying heavy loads which will not be exposed to dampness for one month after being laid. It should not be used in very exposed situations.

Portland Cement Mortar. Is recommended for piers or walls which carry heavy loads, for wet or very exposed situations, fire and party walls, work under water, brick footings, sills, chimney and parapet caps, free standing chimneys above roofs, brick steps, cheek walls to steps, brick porch and terrace floors and similar exposed locations and for use in freezing weather. It is also recommended for fire-places and flues.

It is sometimes used throughout a building. It is the highest in cost of all the mortars.

Cement-Lime Mortar. Cement-lime mortar will set in damp places but is not as weather resistive as Portland cement mortar.

It is recommended for constructing Ideal walls above and below ground.

It is also generally recommended for masonry carrying heavy loads, for all solid residence walls above footings, for fireplaces and flues, and for locations where the work is partially protected, such as veranda posts and piers.

Cement-lime mortar costs less than cement mortar but more than lime mortar. Besides being cheaper than cement mortar in production cost, its greater plasticity permits a higher brick-laying rate and therefore further tends to lower the cost of brickwork.

It should be evident from the foregoing that, while certain mixtures are recommended as constituting good cement and cement-lime mortar, any proportions of cement and lime and sand may be used. The physical properties of cement-lime mortars of all possible proportions were carefully ascertained by the U. S. Bureau of Standards. We can do no better than quote from the Bureau of Standards paper on "Cement-lime Mortars," by H. V. Johnson.

Ingredients of a Mortar and Consistency

"First, it should be remembered that the mortars under consideration consist, in general, of four ingredients—cement, lime, sand, and water. The proportions of the first three may be varied at the will of the operator. The percentage of water used is fixed within narrow limits by the composition of the mortar and by the fact that the consistency must suit the purpose for which the mortar is used. The effect of the composition of the mortar upon the water required for the same consistency may be expressed by the statement that, in general, lime paste will require much more water than will cement paste, but the water required by each will decline proportionately with increasing additions of sand. As to usage, a mortar of wetter consistency can be used for laying brick than for laying stone or for plastering, and the scratch coat of plaster for metal lath must be stiffer than the scratch coat for masonry.

Composition of a Mortar Affects Its Properties

"A mortar having a high content of cement is characterized by high strength and by a short time of set; it is also fairly workable and shrinks some on drying. One having a high content of lime will have less strength, will be slower in setting, will be more workable, but will show more shrinkage. The chief characteristic which a high sand content gives to mortar is low shrinkage, but it also results in low strength and in poor workability. An excessive amount of water may permit of easier application of a

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mortar, but at the expense of strength. The evaporation of this water may be accompanied by excessive shrinkage, or the mortar may be left porous. This high porosity is to be desired if light weight and low thermal conductivity are important; it is not desirable from the standpoint of strength or of permeability."

Recommended Mortar Mixtures

While various proportions of cement, lime and sand may be used, as previously explained, the following are widely used and are recommended for general practice. The proportions are all by volume (not weight).

Cement Mortar. One (1) part cement, three (3) parts of sand.

A very excellent mix is one (1) part cement and three (3) parts of sand, with about 10-15% of the cement replaced with hydrated lime. This mix works easier and is practically as strong as a straight cement mortar. Its cost is so little higher than the cheapest mortar as to be almost negligible in the total cost of brickwork.

Lime Mortar. One (1) part, lime, three (3) parts of sand.

Cement-lime Mortar. One (1) part cement, one (1) part lime and six (6) parts sand.

Masonry

The production of the highest type of masonry requires: first, good mortar properly mixed; second, skilled and intelligent workmanship. There are some important precautions which should be always borne in mind and are therefore given herewith.

Brick should (except in freezing weather) be well wet before laying and *laid while wet.* The greatest wall strength is thus developed. However, hard impervious brick absorb no water and are better laid dry.

Brickwork should be well protected from storm water or snow until the mortar is set; especially from water getting in the top of the wall. If this is done, efflorescence will rarely, if ever, appear.

Brick laid in freezing weather should be dry, not wet.

Mortar should be mixed warm and kept warm until used, by mixing with warm water or in a heated mortar box or both.

Special care should be used to protect the work from freezing or from storm water until the mortar is well set. A good rule is to never leave the top of the wall uncovered or unprotected.

Efflorescence

A white efflorescence sometimes appears on brickwork, especially in moist climates and damp places. Authorities agree that it is caused by an excess of moisture within the walls which dissolves the solluble salts in the mortar. Water containing these soluble compounds leaches out to the surface where the water evaporates, leaving the salts deposited on the outer surface.

The best remedy is one of prevention; if an excess of moisture and the presence of soluble salts can be avoided, efflorescence will be prevented.

An excess of water is more often due to lack of protection from the weather during construction. Mortar, properly mixed, does not contain excess moisture; that which does the harm is storm water which comes into the top of an improperly protected wall during construction.

While these soluble salts are more commonly found in the mortar, it is thought by some that bricks made from clay containing iron pyrites or burned with sulphurous fuel, may contain thes soluble salts in small amounts.

The presence of soluble salts in th mortar may be due to the quality of the sand, to impurities in the lime, sometimes to ingredients or impurities in mortar colors and also to materials in the cement. A careful selection of pure materials for making mortar is therefore very important. And even more important is the

BRICKS AND MORTAR REQUIRED

For 100 Square Feet of Wall Surface

All Joints Assumed to be ½ Inch Thick

Kind of Wall	Wall Thickness Inches	Number of Bricks	Cu. Ft. of Mortar	Remarks
Exterior solid wall, in all bonds. All joints filled with mortar. Every 5th course a header.	8	1233	20	This type construction best, but u
	12	1850	32	maximum amount of mortar.
	16	2465	44	
Solid walls in common bond. Exterior 4 inch laid with all joints filled; remaining thickness laid with full bed, brick touching end to end, vertical space between each 4 inch thickness filled with mortar. Every 5th course a header.	8	1271	20	Type of wall sometimes built. Nc
	12	1926	20	recommended for heavy loads.
	16	2580	44	
Same as above, but with vertical space between each 4 inch thickness left open.	8	1271	14	
	12	1926	32	
	16	2580	26	
Exterior Ideal all-rolok wall	8	904	8	Methods of constructing Ideal hollow
For heavy type wall.	12½	1431	13	walls shown in detail in our book "Brick
For lighter type wall.	12½	1330	12	—How to Build and Estimate."
Exterior Ideal Rolok-bak wall.				
Flemish headers every 6th course.	8	1052	12	Construction details shown in "Brick—
Flemish headers every 3rd course.	8	1078	12	How to Build and Estimate."
Flemish headers every 6th course.	12½	1544	15	
Flemish headers every 3rd course.	12½	1578	15	

...ion of brickwork during construc-

As previously stated, efflorescence rarely occurs if the mortar used contains none of these soluble salts. But if their presence is even suspected, it has been found that the salts in the mortar may be neutralized by the addition of barium carbonate, which compound does not affect the bonding properties of the mortar.

Efflorescence may generally be removed by washing the surface with a solution of one part muriatic acid and not less than 15 parts of water. After cleaning, the wall should be well washed down with clear water to prevent the continued action of the acid.

(Continued next week)

WE ASK YOU

Isn't it funny?
THAT A MAN WHO CONSIDERS
HIMSELF A BUSINESS MAN
Will get up in the morning
From an advertised mattress,
And put on advertised underwear,
Advertised hose, shirt, collar, tie and shoes
Seat himself at a table and
Eat advertised breakfast food,
Drink advertised coffee or substitute,
Put on an advertised hat,
Light an advertised cigar,
Go to his place of business and
TURN DOWN ADVERTISING ON THE GROUND THAT ADVERTISING DOESN'T PAY!

"Camouflage" doesn't pay in advertising Don't call your cannon a bit of landscape Be honest and gain the confidence of the public.

The National Lime Association announces a change in address of the headquarters of the Association to 927 15th St., N. W., Washington, D. C.

The move is due to the steadily increasing demand for detailed information. This has necessitated expansion of both the field and office staff and a corresponding broadening of the activities of the Association, all of which required larger quarters.

A pamphlet, just issued, "The Business of the National Lime Association," describes the aims and broad activities of the Association. Copies are available upon request.

UNITED STATES GOVERNMENT MASTER SPECIFICATION FOR .. FIRE-CLAY BRICK

Circular No. 299, 2nd Edition, entitled, "United States Government Master Specification for Fire-Clay Brick," just issued by the Department of Commerce, Bureau of Standards, contains revised specifications for six classes of fire-clay brick for use by the various Government departments.

This specification was developed by conferences at the Bureau of Standards of official representatives of the various interested Government departments and of manufacturers and users of fire-clay brick. General requirements are outlined, and the requirements for each of the six classes and the methods of testing are detailed. In addition, the specification contains a definition of each class based on the requirements of the service for which the brick of each class is intended.

Although this specification was developed for the Government, it may serve as a basis for specifications for other users of this material.

Copies of this circular may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each.

BUILDING PERMITS

Reports from 41 cities and boroughs in Pennsylvania show that permits were granted during November, 1926, for the construction or alteration of 3,224 buildings at an estimated cost of $17,645,073. The November figures show a decrease of 476 in the number of buildings and $2,741,405 in costs of construction when

ESTIMATED VALUE OF BUILDING PERMITS ISSUED IN CITIES AND BOROUGHS IN PENNSYLVANIA DURING THE MONTH OF NOV.

City or Borough	1926 Number of Buildings	1926 Estimated cost	1925 Number of Buildings	1925 Estimated cost
Allentown	87	$614,970	70	$1,841,880
Altoona	88	121,067	80	130,915
Ambridge Borough*	8	21,800	..	.....
Berwick Borough*	5	9,500	..	.....
Bethlehem	41	48,705	44	144,075
Bradford	10	19,955	20	86,227
Bristol Borough*	1	400	..	.....
Carlisle Borough*	11	10,310	..	.....
Carrick Borough*	24	74,177	..	.....
Clairton*	28	37,455	..	.....
Coatesville*	34	62,550	..	.....
Connellsville*	10	9,240	..	.....
Duquesne*	46	29,049	..	.....
Easton	29	84,682	26	73,989
Erie	126	1,150,620	113	353,973
Harrisburg	81	531,725	41	120,950
Hazleton*	18	89,278	..	.....
Homestead Borough*	7	10,500	..	.....
Johnstown*	46	130,525	..	.....
Lancaster	41	276,670	38	159,790
McKees Rocks Borough*	7	.....	46	182,503
McKeesport	...	280,700	..	.....
Meadville	7	1,225	2	2,400
Monessen*	5	11,800	..	.....
Monongahela*	2	1,340	..	.....
New Castle	63	142,880	56	107,570
Oil City	24	109,499	23	33,840
Philadelphia	1,243	8,667,140	1,442	13,303,765
Pittsburgh	504	2,964,997	443	1,810,071
Pottsville*	31	777,525	..	.....
Reading	168	158,050	179	183,275
Scranton	115	578,635	84	277,480
Shamokin Borough*	20	42,289	..	.....
Sunbury	8	17,363	..	.....
Uniontown	17	45,305	6	33,800
Warren Borough	14	31,565	11	35,525
Washington*	13	26,740	..	.....
Wilkes-Barre	104	200,017	142	289,470
Wilkinsburg*	28	139,100	..	.....
Williamsport	50	65,700	49	315,710
York	60	50,025	51	186,725
Total	3,224	$17,645,073	2,966	$19,673,933
Comparative Total	2,872	$15,863,432	2,920	$19,491,430

*Not included in Comparative Totals.

compared to October, 1926. Sixteen of the 41 cities and boroughs reported increased volume of construction for November, 1926, over the preceding month. Erie reported an increase of $819,446, or 247 per cent over October. Lancaster was second with $139,735, or 102 per cent. Scranton ranked third with an increase of $264,986, or 94 per cent. Harrisburg was fourth, showing an increase of $252,325, or a 90 per cent gain. Allentown, Philadelphia, Pittsburgh, and McKees Rocks reported totals of building volume that showed enormous losses compared to October, 1926. The loss for Pittsburgh amounted to more than $4,000,000.

Comparisons of the building total for 11 months of 1926 with 11 months of 1925 can be made for only 20 cities. This comparison shows that building activity for 20 cities in 1926 is nearly $57,000,000 or 27 per cent, below the total for 11 months of 1925. Three of the 20 cities show building gains for 11 months of 1926 over 1925. These cities and their gains over last year are: Pittsburgh, $1,109,618, Allentown, $779,180, and New Castle, $3,015. Some of the cities showing decreases of more than a million dollars from the 11 months' total for 1925 are: Philadelphia, $43,000,000; Bethlehem, $3,000,000; Erie, $2,500,000; York, $2,100,000; Lancaster, $1,750,000; Reading, $1,500,000, and Scranton, $1,300,000.

ESTIMATED VALUE OF BUILDING PERMITS ISSUED IN PENNSYLVANIA, JANUARY TO NOVEMBER, INCLUSIVE

City or Borough	January to November, Inclusive 1926		January to November, Inclusive 1925	
	Number of Buildings	Estimated Cost	Number of Buildings	Cost Estimated
Allentown	1,702	$8,952,245	1,531	$8,173,065
Altoona	1,588	2,840,205	1,712	2,962,484
Bethlehem	765	2,123,001	553	5,961,650
Bradford	323	663,123	377	782,602
Easton	384	2,173,927	380	2,420,115
Erie	1,984	5,838,261	2,146	8,378,542
Harrisburg	1,087	4,134,785	986	4,183,621
Lancaster	687	2,158,137	819	3,919,142
Meadville	141	779,401	140	821,485
New Castle	799	2,240,105	1,082	2,237,090
Oil City	449	530,714	638	1,143,563
Philadelphia	18,538	119,447,275	22,384	162,414,900
Pittsburgh	7,389*	40,007,376	7,861*	38,997,758
Reading	2,488	5,566,275	2,668	7,126,19[illegible]
Scranton	1,469	5,245,183	1,629	6,589,38[illegible]
Uniontown	132	553,285	175	1,387,19[illegible]
Warren Borough	151	710,632	164	807,53[illegible]
Wilkes-Barre	1,412	3,781,236	1,493	4,062,573
Williamsport	807	2,204,404	898	2,342,096
York	1,000	1,427,882	1,138	3,561,532
Total	43,295	$211,377,452	48,774	$268,272,517

*Number of Permits—Buildings Not Given.

NEW BUILDINGS, ADDITIONS, ALTERATIONS AND REPAIRS IN PENNA. FOR THE MONTH OF NOV.

City or Borough	1926				1925			
	New Buildings		Additions, Alterations Repairs, Etc.		New Buildings		Additions, Alterations Repairs, Etc.	
	Number of Buildings	Estimated Cost	Number of Buildings	Estimated Cost	Number of Buildings	Estimated Cost	Number of Buildings	Estimated Cost
Allentown	72	$580,370	15	$34,600	57	$1,814,650	13	$27,230
Altoona	42	71,960	46	49,107	35	109,675	45	21,240
Bethlehem	23	31,770	18	16,935	37	133,425	7	10,650
Bradford	6	15,875	4	4,080	14	83,805	6	2,422
Easton	17	64,750	12	19,932	17	68,714	9	5,275
Erie	99	963,895	27	186,725	92	284,613	21	69,360
Harrisburg	66	521,075	15	10,650	27	97,275	14	23,675
Lancaster	20	269,775	21	6,895	24	148,625	14	11,165
Meadville	1	300	6	925	2	2,400	...	.....
New Castle	49	128,545	14	14,335	40	91,910	16	15,660
Oil City	7	5,520	17	103,979	14	32,225	9	1,615
Philadelphia	632	7,621,175	611	1,045,965	1,004	12,894,730	438	409,035
Pittsburgh	380*	2,829,780	124*	135,217	324*	1,493,446	119*	316,62[illegible]
Reading	44	99,625	124	58,425	57	122,950	122	60,32[illegible]
Uniontown	17	45,305	...	.....	6	33,800	...	.....
Warren Borough	6	28,100	8	3,465	10	34,725	1	80[illegible]
Wilkes-Barre	28	86,644	76	113,373	57	213,792	85	75,67[illegible]
Williamsport	32	57,560	18	8,140	38	308,980	11	6,730
York	24	39,795	36	10,230	22	75,240	29	111,485
Total	1,565	$13,461,819	1,192	$1,822,978	1,877	$18,044,980	959	$1,168,970

*Number of Permits—Buildings Not Given.

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Mitchell Bros. .....2125 Race St., Phila.

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The Van Sciver Corporation,
The Parkway at 24th St., Phila.
West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

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Huskey Mfg. Co...Columbia and Howard St., Phila.

CAST STONE
Architectural Cast Cut Stone Co.....Westmont, N. J.

CAULKING
Sterling Products Co. .....831 S. 49th St., Phila.

CEMENT
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West Jersey Sand & Supply Co.,
Delaware Ave. and Marlborough St., Phila.

CEMENT WORK
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Massiah, Frederick.Juniper and Cypress Sts., Phila.

COLD STORAGE (Insulation and Covering)
Livezey, John R.,
Glenwood Ave., w. of 22nd St., Phila.

COLUMNS (Metal)
Pearce Fireproof Co. .....1911 N. 2nd St., Phila.

CONCRETE WORK
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Service Supply Corporation..20th and Venango Sts.

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Selby Battersby & Co. .....810 Noble St., Phila.

CURTIS WOODWORK
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GAS RANGES
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Philadelhia Gas Range Co. ...1026 Arch St., Phila.
Thomson. Wm., Inc. .....64 N. 2nd St., Phila.

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Lederle, Robt. B., & Co...Witherspoon Bldg., Phila.
Livezey, Thos. H...American and Luzerne Sts., Phila.
Montgomery Iron & Steel Co..2500 Duncan St., Phila.
Murlin Mfg. Co. .....5420 Paschall Ave., Phila.
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Whartenby, Harry A. ....1823 Brandywine St., Phila.

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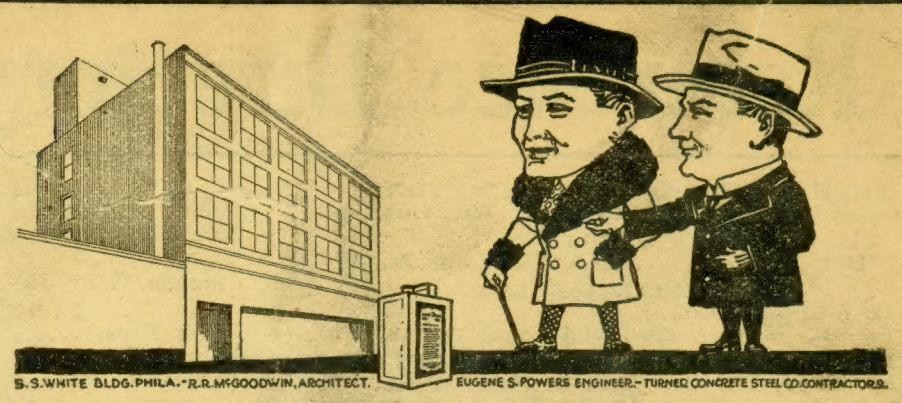
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